

Quarterly Monitoring Report 1st Quarter 2005

L.E. Carpenter & Company Borough of Wharton Morris County, New Jersey

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Section 1 Introduction

RMT, Inc. (RMT), on behalf of our client, has prepared this Quarterly Monitoring Report for the L.E. Carpenter and Company (LEC) ("site") located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly monitoring events are performed at the site to comply with paragraph 35 of the 1986 Administrative Consent Order (ACO) issued to LEC by the New Jersey Department of Environmental Protection (NJDEP). We provide a summary of activities completed during the first quarter of 2005 (1Q05), including but not limited to, the initiation of source reduction remedial activities as outlined in the NJDEP and United States Environmental Protection Agency (USEPA) approved Remedial Action Work Plan (RAWP) and response to RAWP comment documents dated September and November 2004, continued quarterly Monitored Natural Attenuation (MNA) groundwater monitoring in the MW19/Hot Spot 1 Area, and the continued emergency response activities to prevent the potential migration of free product.

We have certified this report in accordance with requirements outlined in N.J.A.C 7:26E-1.5 (Appendix A).

RMT conducted the following tasks during the 1Q05:

- Quarterly groundwater monitoring as required under the ACO (Reference Section 2 and Figures 3 and 4).
- Sampling of one new well in the MW-19 area (Installation of MW-19-11 was completed in fourth quarter 2004 [4Q04]) (Reference Section 2 and Appendix D).
- Various follow-up activities associated with the lead, free product, and polychlorinated biphenyl (PCB) investigations and remedial actions as outlined in the RAWP (Reference Section 4).
- Continued maintenance of absorbent booms and sweeps to prevent migration of residual free-product sheen to the Rockaway River and the Air Products drainage ditch (Reference Section 4).

Discussion of these activities is provided in the referenced sections.

1.1 Response to Regulatory Review of the 3rd Quarter 2004 Monitoring Report

Responses to the NJDEP comment letter received by LEC on October 19, 2004 and March 23, 2005 (Appendix B) are presented in the following paragraphs:

October 19, 2004 NJDEP Letter:

- According to the October 19, 2004 letter, NJDEP could not concur with LEC's proposal to abandon well MW-11D(R). However, since that time, NJDEP has approved the general site well abandonment plan in order to facilitate start-up of the source reduction remediation currently being performed. LEC carried out the well abandonment's with the assistance of a New Jersey licensed water well driller. Abandonment records are included in Appendix C, and will be included in the source reduction construction completion report.
- LEC installed a new well in the MW-19 area (MW-19-11) as specified in NJDEP October 19, 2004 letter (as described below in Section 3.2 of this quarterly monitoring report).
- Surface water samples were collected as part of the second quarter 2005 (2Q05) groundwater sampling event, and the results will be submitted along with that quarters monitoring report.
- Engineering controls and safeguards are being implemented to account for excavation footprint expansion per the approved stream-encroachment and general wetland permits.
- Profile sampling showing detailed vertical extent of contamination (e.g. light nonaqueous-phase liquids [LNAPL]) in the area of source reduction was accomplished in November and December 2004 and documented in the report entitled Pre Construction Boring Report (RMT, January 2005). As described in more detail below, profile sampling within shallow wells in the MW-19 area (in order to determine the optimum location of the low-flow pump intake) has been accomplished as part of the 2Q05 sampling event which was performed from March 29 April 3, 2005.

March 23, 2005 NIDEP Letter:

According to generally accepted low flow purging and sampling (LFPS) guidance documents (including the NJDEP December 2003 LFPS guidance), the typical factor to be considered when planning where to place the low-flow pump intake is related to zones within the formation adjacent to the screen where relatively more permeable zones may exist. For example, this would be especially important in monitoring zones predominated by glacial till containing thin stringers of sandy zones because such zones often provide a preferential pathway for contaminant transport. In such a case, the low flow sampler would target the more permeable sand zone by placing the pump intake at the same elevation as the middle of the thin sand seam. However, at the LEC site, the shallow aquifer being monitored in the MW-19 area contains matrices that are for the most part

uniform and no evidence within the saturated zone for significant contrasts in hydraulic conductivity have been found at the scale of any individual well screen interval.

Regardless, profile sampling of the MW-19 wells (except for the 3 background wells) was accomplished during the 2Q05 monitoring event as required in NJDEP's March 23, 2005 letter. In addition, LEC will work closely with NJDEP to assure the appropriate intervals will be screened and sampled in the wells that will be proposed for post-construction monitoring following completion of the source reduction remediation currently underway. Locations and screened intervals for post remediation wells will be detailed in a revised MNA monitoring plan that will be prepared and submitted for NJDEP and USEPA review and approval shortly following completion of the source reduction that is currently anticipated to be completed by the end of May 2005.

Two surface water samples were collected from the ditch as part of the 2Q05 sampling event. A Rockaway River and an additional ditch surface water sample will be collected during the 3rd quarter 2005 (3Q05) monitoring event following completion of the source reduction remediation. The river water will be collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Surface water sampling will continue to take place during each quarterly monitoring event; each event will include three samples in the ditch, and one location in the river (at the locations shown on Figure 2 of this report).

The results from the profile samples and the two ditch surface water samples will be provided in the 2Q05 Monitoring report.

Section 2 Source Reduction Remedial Action Preparation Activities

RMT initiated the source reduction remedial action on January 6, 2005 at the project preconstruction meeting following NJDEP and USEPA approval of the RAWP and associated RAWP response documents. As outlined in the RAWP, the following activities were performed prior to the initiation of on-site construction activities.

- Monthly mobile Enhanced Fluid Recovery (EFR) activities were terminated in 4Q04.
 During the period between November 1997 and September 2004, 82 EFR events were
 conducted resulting in 4,053 gallons of measurable free product being extracted and
 removed from the LEC site. All EFR wells were abandoned by Summit Drilling Co., Inc
 (Summit) between the dates of and November 29 and December 9, 2004.
- Summit Drilling abandoned all monitoring wells, well points, staff gauges, and caisson wells outlined on Table 7 of the RAWP between the dates of and November 29 and December 9, 2004.

Copies of all abandonment forms are presented in Appendix C.

Section 3 MW19/Hot Spot 1 Groundwater Monitoring

3.1 Implementation of the Revised Monitored Natural Attenuation Protocol

In a letter dated January 15, 2004, USEPA requested LEC implement the approved May 2001 MNA workplan. Prior to that time, LEC implemented only the low-flow sampling protocols outlined in the MNA workplan. During the second quarter 2004 (2Q04) sampling event, LEC began implementing all aspects if the MNA workplan (e.g., low flow sampling, full MNA analysis etc). During the January 6, 2005 preconstruction meeting, USEPA requested quarterly MNA activities be continued in the MW19/Hot Spot 1 area until the source reduction remedial action was complete and a new site-wide monitoring well network was installed. In a letter dated January 13, 2005, RMT revised the MNA monitoring program due to the modifications made to the LEC site groundwater monitoring network (Ref. Section 2). A copy of the revised MNA sampling protocol is presented in Appendix D. This revised MNA monitoring protocol will be implemented quarterly at LEC until an NJDEP and USEPA approved site-wide monitoring well network has been installed, and a sampling plan developed.

3.2 MW-19-11 Installation and Survey

As outlined in the letter dated October 19, 2004 following review of the 2Q04 monitoring report, NJDEP requested an additional groundwater monitoring well be installed along Ross Street approximately 50-feet east of existing groundwater monitoring well MW-19-8. A copy of the NJDEP letter dated October 19, 2004 is presented in Appendix B. Due to the close proximity of this well to the Ross Street right of way, RMT secured a Borough of Wharton Road Opening Permit prior to the commencement of drilling activities. A copy of the Road Opening Permit dated November 3, 2004 is presented in Appendix E.

Summit Drilling utilizing air rotary drilling techniques installed groundwater monitoring well MW-19-11 on November 30, 2004. MW-19-11 was completed with all stainless steel construction (riser and screen), was installed to a total depth of 22 feet below ground surface (bgs), and equipped with a 10 feet screen between the 7 and 17 feet bgs interval. Copies of the State of New Jersey Monitoring Well Permit, Monitoring Well Record, Well Construction Log, and Well Construction Diagram are presented as Appendix F.

Louis J. Weber & Associates, Inc. of Sparta, New Jersey professionally surveyed MW-19-11 on December 3, 2004. A copy of the Monitoring Well Certification Form B is presented in Appendix G.

3.3 Sampling Methodology

RMT conducted the 1Q05 groundwater monitoring activities between the dates of January 11 and January 14, 2005. Historically, we performed groundwater monitoring in accordance with the procedures contained in the NJDEP's Field Sampling Procedures Manual dated May 1992. However, in second quarter 2002 (2Q02) we initiated groundwater monitoring using the lowflow methodology outlined in our May 2001 MNA workplan. The MNA workplan was approved by NJDEP on January 24, 2002. Although the sampling was performed using lowflow methods (i.e., QED bladder pump system with disposable Teflon bladders as described in the approved MNA workplan Quality Assurance Project Plan (QAPP)), the remaining parts of the MNA workplan (e.g., full analysis of each sample for MNA specific parameters) had not yet been initiated. As outlined in the comments received from USEPA on January 15, 2004 following their review of the third quarter 2003 (3Q03) monitoring report, LEC began implementing the additional portions of the MNA workplan during the second quarter 2004 (2Q04) sampling event. In 1Q05, RMT implemented the revised MNA monitoring protocol outlined in Section 3.1, and performed the event in accordance with the approve MNA workplan. Locations of the monitoring wells remaining at LEC following the abandonment activities completed in 4Q04, along with the monitoring wells utilized in the quarterly MNA monitoring of the MW19/Hot Spot 1 Area (Ref. Table 1 in Appendix C) are shown on Figure 2.

A sample duplicate, a trip blank, field (atmosphere) blank, and a rinsate blank were collected to satisfy Quality Assurance/Quality Control (QA/QC) requirements outlined in the QAPP. The trip blank was prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for benzene, toluene, ethyl benzene, and xylenes (BTEX). The duplicate was collected from monitoring well MW-19-7 (duplicate sample No. Dupe-01), and was analyzed for BTEX, bis (2-ethylhexyl) phthalate (DEHP), and MNA parameters. The rinsate blank was collected by circulating triple distilled water through the cleaned bladder pump assembly to verify the decontamination procedures were adequate. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved de-ionized water provided by the laboratory, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. RMT submitted all samples to Lancaster Laboratories, Inc. (Lancaster), located in Lancaster, Pennsylvania for BTEX, DEHP, and MNA

parameter analysis per the current MNA groundwater monitoring protocol presented in Appendix C.

3.4 Groundwater Elevations and Flow Direction

On January 11, 2005, RMT measured static groundwater levels from 18 different locations (Table 1) outlined in the revised MNA protocol (Appendix C). RMT used this data to calculate groundwater elevations and evaluate the groundwater flow pattern in the shallow aquifer system.

Figure 3 displays the MW19 / Hot Spot 1 Area shallow groundwater elevation contours, and indicates groundwater flow direction in the shallow aquifer is very similar to that observed historically (generally toward the north and bends northeast). The localized flow of shallow groundwater in this area is likely influenced by the presence of the 24-inch Rockaway River Regional Interceptor Sewer, which is encased in a gravel-lined trench running parallel to Ross Street.

From a regional flow standpoint, overall flow is controlled by the Washington Forge Pond and the Rockaway River. The Rockaway River eventually captures groundwater from MW-19/Hot Spot 1 area, even though it is locally influenced by the Regional Interceptor Sewer.

3.5 Delineation of Groundwater Contamination

3.5.1 Contaminants of Concern

Table 2 summarizes concentrations of BTEX and DEHP for all of the MW-19/Hot Spot 1 area MNA groundwater monitoring wells. RMT sampled groundwater from the MW-19/Hot Spot 1 area wells between the dates of January 11 and 14, 2005. Corresponding field sampling data and analytical laboratory reports are presented as Appendix H and Appendix I respectively. Lancaster performed all laboratory analyses.

The NJGWQS for DEHP is not exceeded in any of the sampled monitoring wells. Benzene and total xylenes exceed the NJGWQS of 1 μ g/L and 40 μ g/L, respectively, in groundwater collected from MW-19, MW-19-5, and MW-19-7. In addition, the NJGWQS for toluene (1,000 μ g/L) was exceeded in groundwater sampled from MW-19 and MW-19-5. MW-19 also exceeded the NJGWQS for ethylbenzene of 700 μ g/L. MW-19 is located close to the former 10,000-gallon underground storage tanks (UST's E-3 and E-4) that were likely responsible for the resulting DEHP and BTEX constituents in shallow groundwater. However, these former UST's are no longer a continuing source for DEHP and BTEX contamination in this area because LEC removed them in 1991 along

with nearby impacted soils. In addition, the LEC printing processes and material storage practices that occurred in Building 9 may have resulted in releases of both DEHP and BTEX were stopped in 1987.

No BTEX or DEHP were detected in the newly installed MW-19-11. This well verifies that no contaminants of concern (COC's) are migrating across Ross St. and into the residential property area (Ref. Figure 4). RMT constructed Figure 4 to show isoconcentration contours for total BTEX levels in parts per million (ppm) (mg/L) with respect to the groundwater elevation contours. The distribution of total BTEX defined by the isoconcentration contours is consistent with the groundwater flow direction defined by the groundwater elevation contours.

No BTEX or DEHP were detected in MW19-9D (Table 2). This indicates that there is no migration of these constituents downward and to the north under Ross Street and the regional interceptor sewer. In addition, the lack of downward migration of contaminants is evidenced by the hydraulic data we discuss below.

The closeness of MW19-6 and MW19-9D allows a general comparison between groundwater elevations versus screened interval and to evaluate the vertical gradient. The hydraulic head at MW19-9D is 0.63 feet higher than at MW19-6, indicating a significant upward vertical gradient. The vertical distance between the middle of the MW19-6 and the MW19-9D well screens is 15 feet. Given the difference in hydraulic head between the two wells, the upward vertical hydraulic gradient is about an order of magnitude greater than the horizontal hydraulic gradient measured for this area.

This upward vertical gradient is consistent with all other former deep/shallow well clusters across the site and is probably influenced by the hydraulic head induced by the Washington Pond Reservoir, and regional discharge to the Rockaway River. These findings are consistent with an earlier RMT prediction of an upward vertical gradient for this location based on nearby piezometers GEI-2I and GEI-2S, and other upward vertical gradients observed across the site. The Washington Forge Pond (at an elevation of approximately 640 feet), and the Rockaway River act as constant head boundaries, comprises a regional aquifer discharge area.

LEC will continue to conduct quarterly groundwater monitoring in this area as part of the revised MNA quarterly groundwater-monitoring program.

3.5.2 MNA Parameters

Tables 3 and 4 summarize the MNA laboratory analytical and field data respectively. The sampling and testing was done in accordance with the parameters outlined in the

May 2001 MNA workplan that was revised on October 23, 2001 and approved by NJDEP on January 24, 2002. The current quarterly groundwater monitoring program, as a result of recent modification to the LEC site groundwater monitoring well network, was revised on January 13, 2005, and put into affect for 1Q05 sampling. These data will be examined closely in the future with respect to post-remediation evaluation of MNA.

Section 4

Remedial Actions and Future Activities

The following section briefly outlines additional remedial activities completed in 1Q05 and activities anticipated for implementation during 2Q05. The 2Q05 MW-19/Hot Spot 1 sampling activities are tentatively scheduled to be completed in April 2005.

4.1 Source Reduction Construction Project

Approval of the RAWP and associated response to regulatory comments dated September and November 2004 was provided by NJDEP and USEPA in 4Q04. Shortly following RAWP regulatory approval, RMT received certification of the Soil Erosion and Sediment Control Plan from the Morris County Soil Conservation district, and approval from NJDEP Bureau of Water Allocation to abandon all groundwater monitoring structures outlined in Table 7 of the RAWP. As outlined in Section 2, all monitoring wells, well points, staff gauges, caisson wells, and EFR wells were abandoned by Summit Drilling between the dates of and November 29 and December 9, 2004.

Source reduction construction activities were initiated on January 6, 2005 at the preconstruction meeting held at the LEC site. Site preparation activities (*i.e.*, installation of silt fence, electrical and water hookups, site clearing and grubbing, and the establishment of site health and safety procedures) were completed shortly thereafter. A Freshwater General Wetland Permit No. 4 (GP4) and Stream Encroachment Permit were received from the NJDEP Land Use Regulation Program (LURP) on February 25, 2005. With the exception of minor spot removal and confirmatory sampling, Polychlorinated Biphenyl (PCB) excavation activities within regulated wetland areas are complete. Weekly progress updates are provided to NJDEP, USEPA, the Morris County Soil Conservation District, the Borough of Wharton and LEC regarding on-site construction activities. To date, a total of 9,292 tons of lead impacted soils (> 400 ppm total lead), 2,572 tons of PCB impacted soils (> 0.49 ppm total PCBs), and 378 tons of hazardous process wastes have been excavated, screened, loaded, hauled and disposed at appropriate off-site disposal facilities.

Excavation of free product smear zone soils as outlined in the NJDEP and USEPA approved *Preconstruction Boring Report* (RMT, January 2005) is currently underway. As outlined in the latest Source Reduction Construction Schedule dated February 22, 2005, smear zone soil excavation, screening, loading and off-site disposal activities are slated to end in early May

2005. In addition, once the weather permits, RMT will initiate wetland restoration activities as outlined in the LURP GP4 permit and approved Wetland Restoration Plan.

A Construction Certification Report documenting all source reduction activities will be provided to both NJDEP and USEPA for review once the project is complete and equipment has been demobilized.

4.2 Emergency Response Activities

Maintenance of the absorbent materials (*i.e.*, booms and sweeps) at the two seep areas (Air Products drainage ditch and the south edge of the Wharton Enterprise property adjacent to the bank of the Rockaway River) continued throughout 1Q05. Absorbent material maintenance events took place on January 19, February 2 and 16, and March 9, 2005. Waste booms and sweeps and associated personal protective equipment (PPE) were accumulated in 55-gallon drums and staged on-site pending appropriate management. Ten 55-gallon drums of waste booms, sweeps and PPE were transported off-site for disposal on March 9, 2005. Biweekly absorbent material maintenance events will continue until the smear zone excavation is complete.

4.3 Post Source Reduction Site Monitoring

RMT anticipates initiating discussions with both NJDEP and USEPA during 2Q05 regarding the development and installation of the post source reduction site monitoring network, a revised Sampling and Analysis Plan, modeling, and groundwater remedy Record of Decision (ROD) amendment.

Tables

L.E. Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Elevations

		PROFESSIONAL SURVEY INFORMATION ⁽⁶⁾													
WELL LOCATION (3)	WELL TYPE	BASELINE LO					ATION (FT. N	(SL)	QUARTERLY MEASUREMENT INFORMATION ⁽⁵⁾						
		(Y) North	QQ East	i	LOCATION		OUTER	INNER	MEAS.	PRODUCT	WATER	PRODUCT	WATER	PRODUCT	CORRECTED WATER ELEVATIONS ©
CW-1 CW-3	Caisson Well Caisson Well	754247:22 754203.93	471142.06 471309.9	40° 54' 14.2" 40° 54' 13.8"	74 ⁰ 34'34.7' 74 ⁰ 34'32.5'	630.23 628.03	633,75 632,70	WELL	DATE	DEPTH	DEPTH		ELEVATION IDONED IDONED	THICKNESS (ft)	ELEVATIONS
GEI-11 GEI-21	Piezometer Piezometer	754767.14 754573.99	471095.56 470499.76	40° 54' 19.3' 40° 54' 17.4"	74°34′35,3° 74°34′43.1°	627.84 635.32	630.33 637.75	630.18 637.60	11-Jan-05	Γ	9.64		NDONED 627.96	Eller (Eller mer	
GEI-2S GEI-3I	Piezometer Piezometer	754566 754311.79	470506.18 470453.7	40° 54' 17.3" 40° 54' 14.8"	74° 34' 43.0" 74° 34' 43.7"	634.86	637.27 639.39	637.07 639.25	11-Jan-05 11-Jan-05		9.55 11.81		627.52 627.44		
MW-1(R) MW-2(R)	Monitoring Well Monitoring Well	754207.21 754272.74	471267,56	40° 54' 13.8" 40° 54' 14.4"	74 ⁹ 34 38.8° 74 ⁹ 34 33.1°	635.19 628.46	635.18 631.68	634.97 631,54		1.5			IDONED		rs #
MW-3 MW-4 ⁽⁵⁾	Manitoring Well Manitoring Well	754227.41 754070.52	471302.62 471162.53	40° 54' 14.0' 40° 54' 12.4'	74 ⁰ 34 32.6" 74 ⁰ 34 34.4"	628.04 628.26	631.67 631.71	631.96 631.90					NDONED		
MW-6(B)	Monitoring Well Monitoring Well	754210.83	471191.61	40 ⁰ 54' 13.8' 40 ⁰ 54' 12.9"	74°34'34.1" 74°34'34.0"	629.22 628.89	632.04 630.58	631.52 630.08	T.		24 S	ABAI	NDONED NDONED		
MW-8 ⁽⁵⁾	Monitoring Well Monitoring Well	754099.29	471251.06	40° 54' 12.7" 40° 54' 13.2"	74°34'33.3" 74°34'34.6"	627.39 630.25	629.96 630.92	628.19 629.36	7.		3.5	ABAI	NDONED	i di	
MW-11 D MW-9 ⁽⁶⁾	Monitoring Well Monitoring Well	754075.94	471111.03	40° 54' 14.1' 40° 54' 12.5"	74°34°34.8° 74°34°35.1°	630.20 628.61	632.08	531.82 529.58	1,67.5	1,141		ABAI	NDONED NDONED	S	AND AND THE
MW-1116 MW-111(R) MW-11D(R) (B)	Monitoring Well Monitoring Well Monitoring Well	754226.73 754237.94 754244.62	471126.83 471128.05 471124.66	40° 54' 14.0° 40° 54' 14.1° 40° 54' 14.2°	74 ⁶ 34;34.9° 74 ⁶ 34;34.9° 74 ⁶ 34;34.9°	630.63 630.29 630.06	632.66 633.07 632.75	632.36 632.73 632.49	117	1		ABA	NDONED NDONED NDONED		
MW-11D(R) MW-12S(R) MW12 S	Monitoring Well Monitoring Well	754055.97	471042.34	40° 54° 12.3° 40° 54° 12.3°	74° 34' 35.9° 74° 34' 36.0°	631.57 629.63	634.26 633.11	633.73 632.58				ABAI	IDONED IDONED	10	
MW-13S MW-13S(R)	Monitoring Well Monitoring Well	754353.97 754333.07	471370.04 471365.71	40° 54' 15'3" 40° 54' 15'0"	74°34'31.7" 74°34'31.8"	627.74 627.66	630:80 630:36	630.63		740		ÁBAÍ	NDONED NDONED	1.0000000	S WE RESPON
MW-131 MW-141	Monitoring Well Monitoring Well	754337.8	471360.31	40° 54' 15.1" 40° 54' 14.2"	74 ⁰ 34' 31.9" 74 ⁰ 34' 31.2"	627.76 625.33	630.28 627.72	630.06 627.63	-				NDONED NDONED		
MW-14 S MW-15 I	Monitoring Well Monitoring Well			40° 54' 14.3° 40° 54' 15.0°	74 ⁰ 34' 31.0" 74 ⁰ 34' 37.9"	625.18 694.14	628.03 636.28	627.81 636.06		91			NDONED NDONED	T W	de e
MW-145 MW-141 ⁽³⁾	Monitoring Well Monitoring Well	754255.02 754250.22	471423.66 471409.52	40° 54' 14.3" 40° 54' 14.2"	74 ⁰ 34131.0" 74 ⁰ 34131.2"	625.18 625.33	628,03 627,72	627.81 627.63	1	142	77.9	ABA!	VDONED		100 Earl
MW-15S MW-15I	Monitoring Well Monitoring Well	754326.58 754325.8	470891.83 470901.47	40° 54' 15.0" 40° 54' 15.0"	74° 34' 38.0" 74° 34' 37.9"	634.23 634.14	636.43 636.28	636.17 636.06	14-Jan-05 14-Jan-05		8.85 8.80		627.32 627.26		
MW-165 MW-161	Manitoring Well Manitoring Well	754424.11 754435.1	470704.1 470710.17	40° 54' 15.9" 40° 54' 16.0"	74 ⁰ 34' 40.4" 74 ⁰ 34' 40.3"	631,97 631,83	634.09 634.48	633.87 634.36				ABA1	NDONED NDONED NDONED		and the second
MW-185 L MW-181	Monitoring Well Monitoring Well Monitoring Well	754109.68 754677.95 754675.11	470759.85 471117.26 471106.07	40° 54' 12.5" 40° 54' 18.4" 40° 54' 18.4"	74 ⁰ 34'39.7" 74 ⁰ 34'35.0" 74 ⁰ 34'35.2"	632:35 627:62 627:75	630.88 630.59	634,19 630,56 630,44			7	ABA	NDONED NDONED	TANK TANK	1 4 A
MW-19 MW-19-1	Monitoring Well Monitoring Well	754537.15 754534.52	470454.45 470427.63	40° 54' 17.1" 40° 54' 17.0"	74° 34' 43.7" 74° 34' 44.0"	636.22 635.93	636.23 635.96	635.90 635.64	11-Jan-05 11-Jan-05		8.19 7.74		627.71 627.90		
MW-19-2 MW-19-3	Monitoring Well Monitoring Well	754551.81 754539.4	470429.56 470394.2	40° 54' 17.2" 40° 54' 17.1"	74° 34' 44.0" 74° 34' 44.5"	636.46 636.97	636.50 637.06	636.30 636.70	11-Jan-05 11-Jan-05		8.62 8.81		627.68 627.89		
MW-19-4 MW-19-5	Monitoring Well Monitoring Well	754505.39 754565.53	470432.08 470470.75	40 ⁰ 54' 16.7" 40 ⁰ 54' 17.3"	74 ⁰ 34' 44.0" 74 ⁰ 34' 43.5"	635.69 635.93	635.76 635.93	635.43 635.56	11-Jan-05 11-Jan-05		7.21 8.01		628.22 627.55		
MW-19-6 MW-19-7	Monitoring Well Monitoring Well	754578.87 754595.66	470443.1 470501.7	40 ⁰ 54' 17.5" 40 ⁰ 54' 17.6"	74 ⁰ 34' 43.8" 74 ⁰ 34' 43.1"	636.17 635.31	636.16 635.36	635.82 635.00	11-Jan-05 11-Jan-05		8.29 7.61		627.53 627.39		
MW-19-8 MW-19-9D	Monitoring Well Monitoring Well	754617.42 754590	470493.65 470442	40° 54' 17.8" 40° 54' 17.9"	74° 34' 43.2" 74° 34' 42.4"	635.82 636.39	635.82 636.41	635.36 636.10	11-Jan-05 11-Jan-05		7.98 7.94 6.48		627.38 628.16 627.95	•	
MW-19-10 MW-19-11 MW-20	Monitoring Well Monitoring Well Monitoring Well	754625.75 754617.45 754550.52	470590.81 470546.95 470647.25	40° 54' 18.2" 40° 54' 17.2"	74 ⁰ 34' 41.0" "74 ⁰ 34' 41.2"	634.72 634.22 634.22	634.81 634.26 636.43	634.43 633.67 636.17	11-Jan-05 11-Jan-05		6.40	ABA	627.27		
MW-21 ⁽³⁾	Monitoring Well Monitoring Well	754240.97 754200.52	471645.78 471409:13	40° 54' 14.1" 40° 54' 18.7"	74° 34' 28' 2" 74° 34' 31' 2"	624:57 625:34	628.49 627.71	628.20 627.53			158	ABA	NDONED NDONED		S. V
MW-23 MW-25	Monitoring Well Monitoring Well	754413.43	471469.4	40° 54' 15:8" 40° 54' 13.7"	74° 34' 30.5" 74° 34' 29.8"	628:10 624:65	630.35 626.77	630.04 s 626.62			100		NDONED NDONED		
MW-25(R) ^(S) MW-26	Monitoring Well Monitoring Well	754201:83 754401:17	471518.21 471174.36	40° 54' 13.7' 40° 54' 15.7'	74° 34' 29.8" 74° 34' 34.3"	624,65 630,24	626.77 633.79	626.62 632.66		144	H.	ABA	NDONED NDONED		
RW-1 RW-2	Recovery Well Recovery Well	754163.96 754245.98	470802-1 471289-8	40° 54' 13.6" 40° 54' 14.2"	74°34'39.1" 74°34'32.8"	634.59 629.20	637.21 631.16	636,78 631.08		3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		ABA	NDONED NDONED		
RW-3 9G-D1 ⁽¹⁾	Recovery Well Drainage Channel Staff Gauge	754315.59 754428.57	471206.84 471240.37	40" 54' 14.9"	74°34'33.9°	629. <u>29</u> 625.81	631.55	631.39			1000		NDONED IDONDED		3.45
SG-D2 [®]	Drainage Channel Staff Gauge	754285,43	471361.24	2.0	7.	626.26	f., -	213		11/4	pi .	ABAN	IDONDED		
SG-D3 rd	Drainage Channel Staff Gauge Rockaway River	754381.47 754313.99	471548.31 470408.70	7	-	625.83 640.92			11-Jan-05	T	1.95	ABAN	1DONDED 638.97	T	ist T
SG-R1 SG-R2 (10)	Staff Gauge Rockeway River Staff Gauge	754056.10	470946:46	-	-	628.65	-	-	22 jan 00	<u> </u>	1	ABÂN	IDONDED		the state of the s
SG-R5 ⁽⁰⁾	Rockaway River Staff Gauge	754113.47	471426.67	Service Service		526.78	- N	1				the R. December	IDONDED		
WP-A1 WP-A2 WP-A3	Area A Well Point Area A Well Point Area A Well Point	754220.52 754249.34 754195.42	470825.71 470813.05 470717.12	40° 54' 13.9° 40° 54' 14.2" 40° 54' 13.7"	74° 34' 38.8' 74° 34' 39.0' 74° 34' 40.3''	635.69 636.71 635.37	635.72 639.02 635.37	635,21 638,59 634,96	11.74			ABA	NDONED NDONED NDONED		
WP-A3 WP-A4 WP-A5	Area A Well Point Area A Well Point	754299.46 754266.54	470855,24 470886,02	40° 54° 14.0° 40° 54° 14.4°	74 34 38.5" 74"34 38.5" 74"34 38.1"	695.03 695.10	635.86	634.50 637.25	He State			ABA	NDONED NDONED	e	
WP-A6 WP-A7	Area A Well Point Area A Well Point	754184.69 754196.44	470888.45 470999.43	40° 54' 13.6" 40° 54' 13.7"	74°34'38.0" 74°34'36.6"	. 634.35 632.34		636.68 634.28				ABA	NDONED NDONED	18	Age .
WP-AB WP-A9	Area A Well Point Area A Well Point	754260:25 754184:12	470998.97 470935.26	40° 54° 14.3° 40° 54° 13.6°	74°34'36.6" 74°34'37.4"	634:10 636:62		636,96 638.72				ABA	NDONED NDONED		
WP-81 WP-82	Area B Well Point Area B Well Point	754218.63 784282.8	471068.54 471115.71	40° 54° 13.9° 40° 54° 14.5°	74°34'35.7' 74°34'35.1"	631.25 629,68	631.98	633.05 631.65				ABA	NDONED NDONED		
WP-B3 WP-B4	Area B Well Point Area B Well Point	754243.43 754275.31	471088.51 471156.49	40° 54° 14.2° 40° 54° 14.5°	74°34'35.4" 74°34'34.5"	631.11 629.33		632.73 631.96				ABA	NDONED NDONED		A STATE OF THE STA
WP-B5 WP-B6	Area B Well Point Area B Well Point	754296.93 754171.56	471181.49 471223.53	40°54'14.7" 40°54'13.4"	74°34°34.2° 74°34°33.7°	629.43 629.12	A CHE	631.51 631.26				ABA	NDONED NDONED		
WP-87 WP-810	Area B Well Point Area B Well Point	754179.91 754319.10	471530.82 471144.76	40° 54:13.5° 40° 54' 14.9°	74°34'32.3" 74°34'34.7"	627.02	632-52	628.89 632.14			****	ABA	NDONED NDONED NDONED	- (32)	B-7 -
WP-C1 WP-C2 WP-C3	Area C Well Point Area C Well Point Area C Well Point	754087,66 754075.97 754066,60	471038:32 471074:74 471009:58		74°34'36.1" 74°34'35.6" 74°34'36.4"	632.42 630.40		632.91 633.86 632.04	1		j.	ABA ABA	NDONED	2 G.	7. 106
WP-C4	Area C Well Point		471050.74		74°34'359"	631.84		632.67				ABA	NDONED		100

FOOTNOTES

(1) Elevation measured at the top of a 3.33 ft. Staff gauge. Reference elevation (ground) shot at the top of the staff gauge. Water depth based on a visual observation of the water level on the Staff gauge. (2) Corrected water level elevations utilize an average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1(R): EFR-11 & WP-A8)
(3) Monitoring points and wells in BOLD included in the quarterly sampling program as outlined in the RMT letter dated January 13, 2005. Depth to water recorded before purging

T000652710-001.xlsTable 1

MW-19

TABLE 2

L.E. CARPENTER AND COMPANY (LEC) Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Groundwater Monitoring Data

				<u> </u>	ANAL	YTICAL PARAM	ETERS					
MONITORING WELLS	SAMPLE DATE QUARTER		ı	Benzene	Eth	ylbenzene	1	Coluene	Tot	tal Xylenes	Ethyli	bis-2- exylphthalate (DEHP)
		UNITS	ug/l		ug/l		ug/l		ug/l		ug/l	
NEW JERSEY GROUNDWATER (QUALITY STANDA	ARDS (NJGWQS)		1		700		1,000		40		30
MW19					, in		. 24					
Dilution factor for BTEX 2000	24-Feb-95	1	<	660	,	1,700		110,000		10,000		NR
Dilution factor for BTEX 100	14-Jun-95	2		150		3,400		140,000		17,000		NS
Dilution factor 5000 for BTEX & 2 for DEHP; MDL for Benzene 1000 ug/l	24-Apr-98	2	_	1,000	121	2,850	•	76,700		14.900		6.6
		3	<_	95	-	3.000				17,000		2.9
Dilution factor for BTEX 500	2-Aug-01 6-Jun-02	2	<u> </u>	200		1.000		62,000 30,000		6.000		5.6
Dilution factor for BTEX 1000 Dilution factor for BTEX 100, Toluene 200	20-Nov-03	4	. <	200		1,500		40.000		7.400	j	6.0
Distrion feator for BTEX 100, Targette 200	15-Jun-04		<	100		1,400				5,600	J	4.0
District Court Division Telescope		2	<					46,000				
Dilution factor for BTEX 100, Totuene 500	10-Aug-04	3	<	20		2,100		56,000		11,000	J	2.0
Dilution factor for BTEX 50	13-Jan-05	1	<	10		750		18,000		3,600	<	1.0
MW19-1												
Dilution factor for BTEX 200	12-Mar-98	1	_	40	***************************************	219		4,270	-	1,160		190
	2-Aug-01	3	~	0.2		1.2	<	0.2	<	0.2		85
	5-Jun-02	2	~	0.22	<	0.18	· <	0.24	~	0.2		0.6
	19-Nov-03	4		0.22		0.16		0.24		0.6		0.9
<u> </u>	15-N0V-03	2	<u> </u>	0.2	<u> </u>	0.2	<	1.7	<	0.6	<	11.0
			<		_<				<			
	10-Aug-04	3	<_	0.2	<u> </u>	0.2	J	0.6	<	0.6	<u> </u>	1.0
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	J	4.0
MW19-2				 								
Dilution factor for BTEX 250	12-Mar-98	1	<u> </u>	50		1,130		9,830		6,010		8.8
Dilution factor for BTEX 2	1-Aug-01	3	<	0.4	·	21		160		82	-	16
	5-Jun-02	2		0.22		19		36	• • •	. 39	· · ·	0.4
	19-Nov-03	4	~	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	15-Jun-04	2	- -	0.2		1.2	_	29.0		4.8	\ \	1.0
	10-Aug-04	3	-	0.2		28.0		150.0		100.0	J	1.0
	12-Jan-05	1	-	0.2	<	0.2	<	0.2		0.6	J	3.0
MW19-3										<u> </u>		
	12-Mar-98	1	<	0.2	<	0.14	<	0.14	<	0.5	<	1.2
	2-Aug-01	3	<	0.2	<	0.2	٧	0.2	<	0.2	٧	0.5
	5-Jun-02	2		0.22	<	0.18	٧	0.24	<	0.2	V	0.5
	19-Nov-03	4	<	0.2	<	0.2	٧	0.2	<	0.6	٧.	0.9
MW19-4					<u> </u>							
, 101 TT 1 3 ¹	12-Mar-98	ĩ		0.2	<	0.14	· · · ·	0.14	<	0.5	· · ·	1.3
	2-Aug-01	3	 -	0.2		0.2	· ·	0.2	<u> </u>	0.2	· ·	0.5
	6-Jun-02	2	-	0.22	~	0.18	<	0.24	. <	0.2	_<	0.5
	19-Nov-03	4	-	0.22	<	0.18	.<	0.2	<	0.2	· ·	1.0
MW19-5												
Dilution factor for STEX 5000	12-Mar-98	1	< .	1,000		1,920		123,900		10,100		42
Dilution factor for BTEX 1000	2-Aug-01	. 3	<	190		870		79,000		5,200		3.2
Dilution factor for BTEX 500	7-Mar-02	1	<	140		300	* *	10,000		1,700		1.3
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2	<	1,100	. 1	1,100		92,000		6,300	<	9.8
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2 ^{duplicate}	<	1,100		1,300		92,000		6,900	<	9.4
	19-Nov-03	4	<	0.2	<	0.2		4.3	J	0.9	<	0.9
	18-Dec-03	⊿ resample	~	0.2		3.7		240.0		24.0		0.9
	16-Dec-03	2	_	100.0		1,400		83,000		7,400	<u> </u>	1.0
			<_								ان	
Dilution factor for BTEX 10	10-Aug-04 13-Jan-05	3	<u> </u>	200.0 2.0		2,800 64.0		140,000 3,100.0		14,000 340.0	J. <	1.0
Displant library for 21 p.s. 10		-		-,								

TABLE 2

L.E. CARPENTER AND COMPANY (LEC)

Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Groundwater Monitoring Data

	ı				ANAL	TICAL PARAM	ETERS			<u> </u>	٠	
MONITORING WELLS	SAMPLE DATE QUARTER			Benzene	Eth	ylbenzene	İ	Toluene	Tot	al Xylenes	bis-2- Ethylhexylphthalate (DEHP)	
11 - 12		UNITS		ug/i		ug/l		ug/l		ug/l		úg/l
NEW JERSEY GROUNDWATER	QUALITY STANDA	RDS (NJGWQS)	1		,	700		1,000	40		30	
Dilution factor for BTEX 200	15-Nov-99	4	<,	62		94		3,400		500		32
Dilution factor for BTEX 2	1-Aug-01	3	<.	0.4		1.4		390		47		28
	5-Jun-02	2	<	0.22		1.7		13		4.1		2.3
	18-Nov-03	4	_<	0.2	<	0.2	J.	0.3	< .	0.6	J	6
	17-Jun-04	2	<	0.2	J	0.4		1.1		1	J	3.0
	10-Aug-04	3	_ <	0.2		4.6	ļ	38.0		18	J	4.0
	13-Jan-05	1	<	0.2		4.0	<u> </u>	36.0		14	J	1.0
10040 7												<u> </u>
MW19-7	45 Nov. 00			2.6		100		 		4 400		44
Dilution factor for BTEX 50	15-Nov-99	4	_<	16		100	<u> </u>	51		1,400	<	4.1
Dilution factor for BTEX 2	1-Aug-01 7-Mar-02	3 1		6.7	<u></u>	6.6 1.3	-	13		680 250	<	0.4 1.6
Dilution factor for BTEX 5	7-Mar-02 5-Jun-02	2		0.48	<u> </u>	1.6	<	27		27	-	0.4
	19-Nov-03	4		4.7	J	0.4	J	0.3		460	/ J	1.0
	16-Jun-04	2	J	2.8		130.0	-	2,100.0		630	<	1.0
	16-Jun-04	oduplicate	J	4.0		130.0	-	2,100.0		610	7	1.0
	10-Jun-04 10-Aug-04	3		2.0		1.6	 	1.3		20	~	1.0
Dilution factor for BTEX 2	12-Jan-05	1		6.1		90.0	 	240.0		760	-	1.0
ORGIGIN TEGET FOR BYEAR 2		duplicate		2.9		-	 			380		
	12-Jan-05			2.9		45.0	├	120.0		360	<u> </u>	1.0
MW19-8	. Walter of the		-	1 5 m		<u> </u>			· · · ·			
	15-Nov-99	4		0.31		0.38	-	0.34		0.4		4.1
Dilution factor for BTEX 50		4. 3.	<	0.5	· ·	0.38	<	0.34	. <	0.4	<	4.1 0.4
Dilution factor for BTEX 2	1-Aug-01 5-Jun-02	2		0.22	<u> </u>	0.18	< <	0.24	<u> </u>	0.2	<	0.4
	19-Nov-03	4	<u>, <,</u>	0.22		0.20	<	0.20	<	0.6	<	0.9
· · · · · · · · · · · · · · · · · · ·	17-Jun-04	2	~	0.20	~	0.20	<	0.20	<	0.6	~	1.0
	11-Aug-04	3		0.20	~	0.20	~	0.20	~	0.6	~	1.0
	12-Jan-05	1	~	0.20	7	0.30	 `	0.20	~	0.6	-	1.0
								1 5,3===		1		7.3
MW19-9D												i
Dilution factor for BTEX 2	1-Aug-01	3	<	0.2	<	0.2	<	0.2		0.2		0.5
	5-Jun-02	2	<	0.22	~	0.18		0.24	-	0.2		1.9
	19-Nov-03	4	~	0.20	~	0.20	-	0.20	`	0.6	J	1.0
	16-Jun-04	2	- -	0.20	<u>,</u>	0.20	-	0.20	`	0.6	J	2.0
	10-Aug-04	3		0.20	<	0.20	<	0.20	<u>`</u>	0.6	<	1.0
	13-Jan-05	1	<u> </u>	0.20	~	0.20	~	0.20	$\overline{}$	0.6	J	1.0
							<u> </u>			† 		···
MW19-10				<u> </u>			 					
	17-Jun-04	2	<	0.2	<	0.2	-	0.2	<	0.6	<	1.0
	11-Aug-04	3	~	0.2	<u>``</u>	0.2	-	0.2	~	0.6	<	1.0
	11-Aug-04	3 ^{duplicate}		0.2		0.2	 	0.2		0.6		0.9
			<		<		<		<		<	
	12-Jan-05	1	<	0.2	_<	0.2	<u> </u>	0.2	<u> </u>	0.6	<	1.0
183240 44								<u> </u>		<u> </u>		
MW19-11												
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
				de son spans		TO MATERIA PARTY MATERIAL TO	V 40	N Take				
GEI-2I	24-Feb-95	1	<	0.3	'	0.3		0.4	<	0.1		27
	6-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		1.4
GEI-2S	24-Feb-95	1	<	8.2		46		1,500		380		7.6
	25-Mar-98	1	-	NS		NS		NS	,	NS	В	2.5
	6-Jun-02	2		1.2		2.6	_	16		5.1		2.4
7.00	18-Dec-03	4	<	0.2	<	0.2	J	0.4	<	0.6	<	1.0

TABLE 2

L.E. CARPENTER AND COMPANY (LEC)

Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Groundwater Monitoring Data

	ANALYTICAL PARAMETERS												
MONITORING WELLS	SAMPLE DATE	QUARTER	В	enzene	Ethy	Ethylbenzene		Toluene		Total Xylenes		bis-2- Ethylhexylphthalate (DEHP)	
		UNITS		ug/l	de .	ug/i		ug/l		ug/l		ug/l	
NEW JERSEY GROUNDWATER	QUALITY STAND	ARDS (NJGWQS)		1		700		1,000		40		30	
.							1 . 1						
Atmospheric Blank							-				1		
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0	
Rinsate Blank				- 100 77								· · · · · · · · · · · · · · · · · · ·	
	14-Jan-05	1	<	0.2	<	0.2	<.	0.2	<	0.6	<	1.0	
Trip Blank		<u> </u>					1	,				· · · · · · · · · · · · · · · · · · ·	
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	1	NA	

(3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.

NOTES

(1) Low flow sampling initiated 1st quarter 2002

(2) GEI series wells are piezometers installed by Weston

ug/L = micrograms per liter

NJGWQS = New Jersey Groundw

ROD: Record of Decision

NA = Not Applicable

NS = Not Sampled

ND: No Detection

^{aplicate} = Duplicate sample

stration exceeds NJGWQS

1.2

ted value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Quarterly Groundwater Monitoring MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	Alkalinity to pH 8.3	Alkalinity to pH 4.5	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane
(units)	7	cfu/ml	mg/l	mg/l	mg/l	mg/l.	. mg/l	mg/l	mg/l	mg/l	ug/l
MW-19	1Q04	NS	NS	NS NS	NS	NS	NS NS	NS	NS.	NS	NS NS
MAA-19	2Q04	80	ND ND	207	30	589	ND ND	ND ND	0.054	3.6 J	150
	3Q04	630	ND	268	30.9	553	ND.	ND ND	0.12	1.7 J	230
	1Q05	350	ND	241	17.2	347	0.22	ND	ND	7.4	230
		355					<u> </u>		1	* * * *	
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS .	NS :	. NS	. NS
	2Q04	100	ND	162	ND	725	1.4	ND	ND	32.4	ND
	3Q04	49	ND	184	3.2 J	928	_3.9	ND	ND	35.3	ND
	1Q05	43	ND	152	ND	404	2.1	ND	ND	27.9	ND
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
IN 17-13-2	2Q04	10	ND	335	6.0 J	704	ND	ND ND	ND ND	33.6	1600
	3Q04	87	ND	176	6.0 J	916	0.87	ND.	ND ND	23.9	280
	1Q05	110	ND	395	5.2 J	568	0.093 J	0.13 J	ND	69.4	26
			المصاحب المحادث	at an							
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS.	NS	NS	NS .	NS
	3Q04	180	ND	228	14	942	0.06 J	ND	ND	15.7	2100
	1Q05	380	ND	126	3.6 J	174	0.49	ND	ND	15.8	.34
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS.	NS	NS	NS	NS
1377 10.0	2Q04	35	ND	151	10.4 J	1670	1.6	ND ND	ND	37.3	140
	3Q04	110	ND.	178	18.8	1240	1.1	ND	0.062	38.3	140
	1Q05	82	ND	204	11.2 J	544	1.7	ND	ND	44	130
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS.	NS	NS	NS	NS
	2Q04	110	ND	142	6.8 J	2110	0.21	ND	ND	47.2	5200
	2Q04D	.88	ND .	152	9.2 J	2040	0.21	0.15 J	ND	37.3	5400
Dilution factor for Methane 250	3Q04 1Q05	2000	ND ND	175	4.4 J	1920	1.5	ND	ND	64.4	2400
Dilution factor for Methane 250	1Q05D	75 77	ND	200 202	6.0 J	774 754	3.2 3.2	ND ND	ND ND	29.1	10,000
Children lactor for wethere 250	ICOSD		טא	202	1.20	/54	3.2	עא	שא	30.5	11,000
MW-19-8	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	45	ND	143	14.4	1120	ND	ND	0.15	22.8	79
	3Q04	15	ND	152	7.2 J	573	ND	0.24 J	0.12	11.5	790
Dilution factor for Methane 5	1Q05	91	ND	142	25.2	1150	ND	ND	0.18	16.3	510
100 40 00	4004	210									
MW-19-9D	1Q04	NS	NS_	NS	NS	NS	NS	NS	NS	NS	NS
· · · · · · · · · · · · · · · · · · ·	2Q04 3Q04	210 NS	ND NS	211 NS	6.0 J NS	621 NS	0.14 NS	0.33 J NS	ND NS	18.2 NS	1300 NS
	1Q05	NS NS	NS NS	NS NS	NS	NS	NS.	NS	NS NS	NS	NS
	10200	140	110			140	10	110	140	140	NO
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	34	ND	109	6.8 J	563	ND	ND	ND	18	2.6 J
	3Q04	18	ND	98	10.4.J	908	ND	ND	ND	19.2	3.3 J
	3Q04D	22	ND	97.8	10.8 J	890	ND	0.24 J	ND	17.9	2.9 J
	1Q05	29	ND	127	5.2 J	625	ND	ND	ND	16.9	74
MW-19-11	1Q05	940	ND	205	4.8 J	4,750	2.2	ND	ND .	65.6	9.9
Atmospheric Blank	1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND.	ND	ND
Rinsate Blank	1Q05	36	ND	ND	ND .	ND	ND	ND	ND	ND	ND

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the LE. Carpenter property effective 1Q05.

(1) Sulfate has a dilution factor of 5, except for blank samples or unless otherwise noted.

NS = Not Sampled

ND = Not Detected

L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Quarterly Groundwater Monitoring MNA Field Data

Well ID	Event	DO (mg/L)	рН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS .	NS	NS
V	2Q04	10.97	7.23	24	890	2	13.94	NM	160	70
	3Q04	0.1	7.62	-10	1179	2	16.18	<10	200	95
	1Q05	0.2	7.67	100	590	5	11.82	9	NM ⁽¹⁾	121
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS.	NS	NS	NS
IM AA - 1 2- 1	2Q04	13.9	7.22	180	1373	10	13.9	NM	125	17
	3Q04	1 1	7.5	80	1910	10	18.49	0.2	90	28
	1Q05	1	7.8	213	676	10	11.49	0.2	NM ⁽¹⁾	
	1005	1 - 1 - 1 - 1		2.13	676		11,49	.0	INIVI	30
MW-19-2	1Q04	NS.	NS	NS	NS	NS	NS	NS	NS	NS
· · · · · · · · · · · · · · · · · · ·	2Q04	4.45	7.3	83	1199	6	13.97	NM	210	60
	3Q04	_5	7.45	59	1830	9	16.97	2	130	15.5
	1Q05	1	7.3	249	825	10	11.02	0	NM ⁽¹⁾	63
	1.55		172				112			\. <u>.</u>
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.16	7.02	41	1550	4	12.89	NM	130	70
	3Q04	1	7.26	87	1740	19	1,6.3	2	150	60
	1Q05	1 1	7.94	226	269	9	10.59	0	NM ⁽¹⁾	63
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS.	NS .	NS	NS
10147-13-0	2Q04	5.48	6.86	56	2640	10	15.24	NM	. 80	33
	3Q04	1	7.43	83	2490	4	16.61	0.4	125	20
	1Q05	1	7.73	241	867	12	11.79	0	NM ⁽¹⁾	41
			5,,,						,	
MW-19-7	1Q04	NS_	NS	NS	NS	NS.	NS	NS	NS	NS
	2Q04	5.89	6.82	48	380	6	14.34	NM	95	90
	3Q04	.1.	6.92	113	4040	2	16.77	1	75	70
	1Q05	0.6	7.16	281	1388	1	11.34	3	NM ⁽¹⁾	63
	1004	L	• • • •		115					
MW-19-8	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.98	6.9	-24	2010	10	15.69	NM	125	30
·	3Q04	0.4	7.52	48	1093	7	18.29	2	100	19
	1Q05	0.3	7.06	161	177	16	12.92	10	NM ⁽¹⁾	28
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	**	**	**
19144-10-0D	2Q04	3.03	7.11	-28	480	63	14.64	**	**	**
	3Q04	0.00	7.4	8	545	35	15.7	**	**	**
	1Q05	1.5	7.14	193	871	267	11.58	**	**	**
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.82	6.78	85	1050	7	13.94	NM	80	25
	3Q04	0.1	7.35	107	1498	11	15.56	1.5	65	20
	1Q05	0.15	7.25	285	1039	28	13.19	2	NM ⁽¹⁾	20
smiles Ad JA	4 2 2 2			0.1-	 		46.5		A 10 a(1)	
MW-19-11	1Q05	1.5	7.01	215	740	. 8	10.3	0	NM ⁽¹⁾	65

Notes:

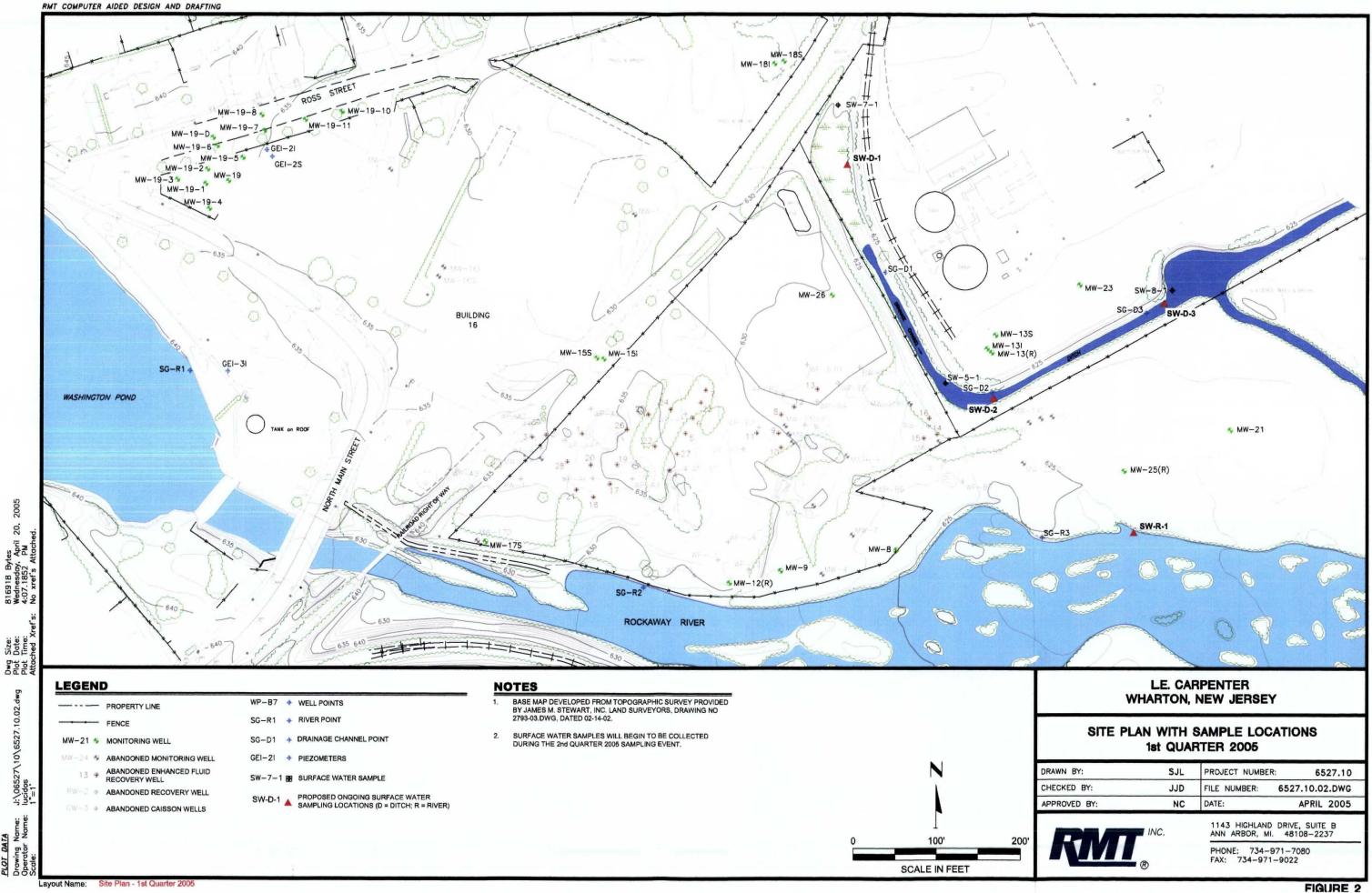
As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1005.

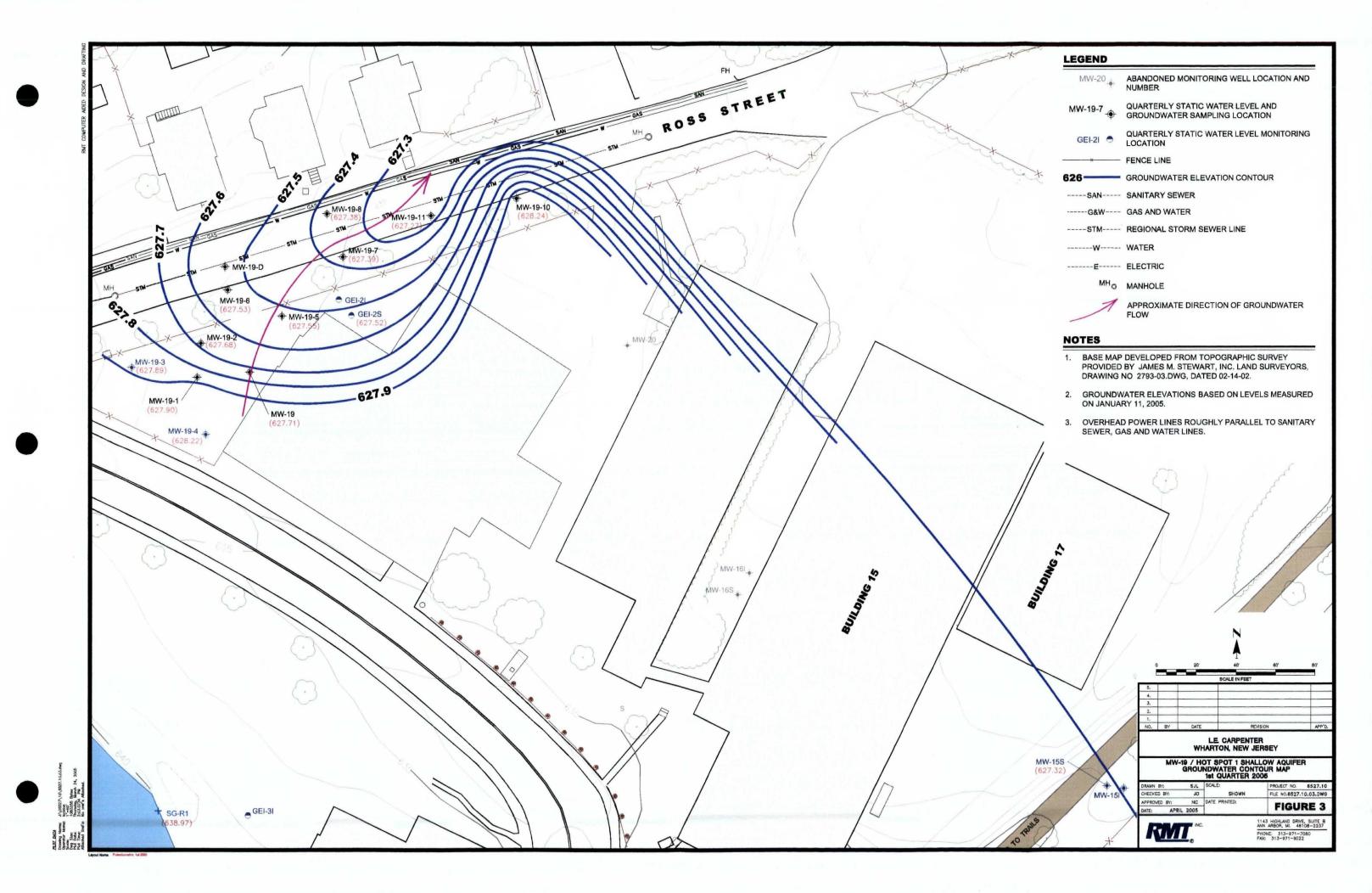
** Additional field MNA parameters not required for MW-19-9D.

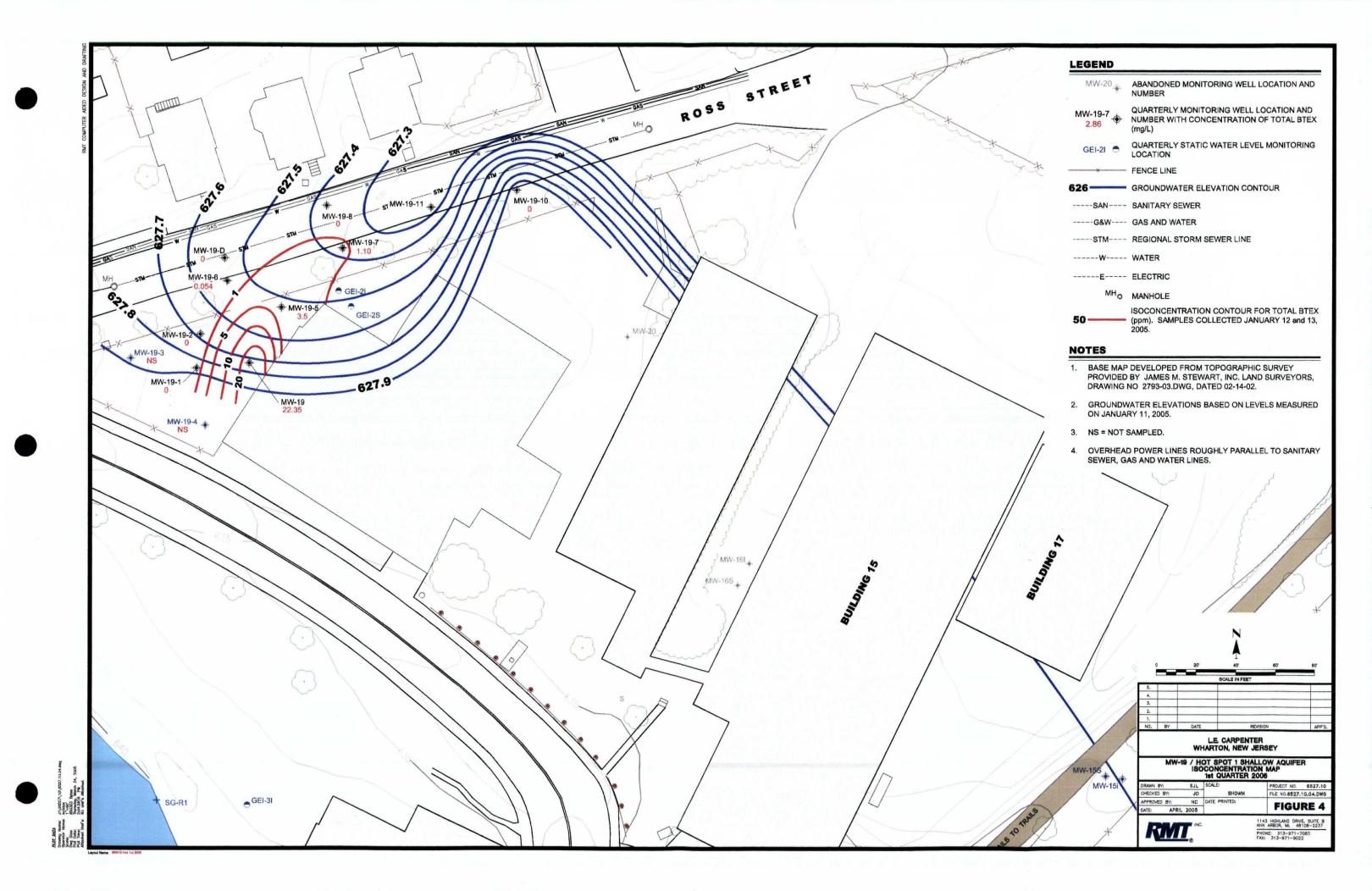
boratory analyzed for alkalinity due to destroyed field kits.

Not Sampled

NM = Not Measured







Appendix A Report Certification

REPORT CERTIFICATION PURSUANT TO N.J.A.C. 7:26E-1.5

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

	PRINTED NAME
Director,	Environmental Services
	TITLE
L.E	. Carpenter & Company
The state of the s	COMPANY
Custylen D	new
	SIGNATURE
	April 27, 2005
	DATE

Mr. Cristopher R. Anderson

Appendix B NJDEP Letter dated October 19, 2004 and March 23, 2005



E. McGreevey

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Christopher Anderson Director Environmental Affairs L.E. Carpenter and Company 33587 Walker Road Avon Lake, OH 44012

OCT 1 9 2004

Re: L.E. Carpenter Superfund Site
Wharton, Morris County, New Jersey

The New Jersey Department of Environmental Protection (NJDEP or Department) has completed a review of the Quarterly Monitoring Report – 2nd Quarter 2004 dated September 2, 2004. This document was prepared by RMT, Inc. on behalf of L.E. Carpenter and Company (LE). The NJDEP has the following comments which must be addressed. LE shall submit a workplan to address the following comments within thirty (30) days after receipt of this correspondence.

General Comments:

The NJDEP noted the increase in the DEHP levels in well MW-11D(R) in the 3rd quarter 2003. This well monitors the deep overburden aquifer and is installed in the heart of the product plume. The deep overburden aquifer is unimpacted by site related contamination, but recently there has been a steady increase in DEHP levels; followed by non-detect for three-quarters. LE indicates that these wells will be abandoned and sealed. LE should be aware that the NJDEP cannot concur with this proposal at this time. Several additional quarters of sampling must be completed before the Department can approve this proposal. LE shall provide clarification as to why these wells were not sampled in the 2nd quarter 2004.

Specific Comments:

MW19/Hot Spot 1 Groundwater Monitoring, page 4-2: The report states that MW19-10 installed as part of the MNA program for this area may not be located properly. According to Figure 6, the direction of the concentrated plume may be toward and potentially across Ross Street. As it appears that MW19-10 may not be located correctly to intercept the plume an alternative location(s) shall be proposed. The NJDEP recommends that a well be located along Ross Street approximately 50 feet east of MW-19-8.

Surface Water Monitoring, page 5-2: The report states that no samples of the sheen have been collected and no samples of the ditch surface water were collected during the 2nd Quarter 2004 event, due to access issues. LE is advised that the discharge points at the Rockaway River and the Drainage Ditch shall be sampled immediately. Surface water sampling at the discharge points shall be added to the quarterly monitoring event and sampled quarterly thereafter.

Appendix G, Revised Figure 8 from the RAWP: As reported in the document and depicted on Figure 8, the proposed footprint of the source reduction excavation has been expanded. If the revised RAWP calls for an excavation up to the Rockaway River, then safe guards including engineering controls to prevent further discharge of product to the river during construction must be provided.

Low Flow Sampling: In the review of the 4th quarter 2003, sampling report, the Department required that LE profile sample each well in the sampling program to identify the most contaminated zone. One low-flow sample at the center of each five-foot screen interval must be collected. Once the most contaminated zone is identified, subsequent sampling will target this zone. LE must also periodically profile sample the monitoring wells to confirm that the most contaminated zone is being sampled. The most contaminated

zone can change due to climatic conditions, ground water stresses, etc. This requirement must be completed.

LE indicates that profile sampling is currently being addressed via sampling of various wells completed at different depths within the unconfined aquifer. The NJDEP requests clarification of this statement as profiling is typically completed before a sampling program is initiated. LE should be aware that this requirement must be completed and the results submitted to the Department.

Should you have any questions please feel free to contact me at (609) 633-1416.

Sincerely,

Anthony Cinque, Case Manager Bureau of Case Management

C: Nick Clevett, RMT Steve Cipot, USEPA George Blyskun, BGWPA John Prendergast, BEERA



State of New Jersey

Department of Environmental Protection Richard J. Codey Acting Governor

Bradley M. Campbell Commissioner

Christopher Anderson **Director Environmental Affairs** L.E. Carpenter and Company 33587 Walker Road Avon Lake, OH 44012

MAR 2 3 2005

Re: L.E. Carpenter Superfund Site.

Wharton Borough, Morris County, New Jersey

The New Jersey Department of Environmental Protection (NJDEP or Department) has completed a review of the 3Q04 Monitoring Report dated November 3, 2004. This document was prepared by RMT, Inc. on behalf of L.E. Carpenter and Company (LE). The NJDEP cannot approve the document for the following reasons. LE shall submit a workplan to address the following comments within thirty (30) days after receipt of this correspondence.

Specific Comments:

Low Flow Sampling: In its review of the 4th quarter 2003, sampling report as well as subsequent reports, the NIDEP required LE to profile sample each well in the sampling program to identify the most contaminated zone. One low-flow sample at the center of each five-foot screen interval must be collected. Once the most contaminated zone is identified subsequent sampling will target this zone. LE shall also periodically profile sample the monitoring wells to confirm that the most contaminated zone is being sampled. The most contaminated zone can change due to climatic conditions: ground water stresses, etc. Burgen of Case Management

LE indicated in the 2nd Quarter 2004 Monitoring Report that profile sampling is being addressed via sampling of various wells completed at different depths within the unconfined aquifer. The NJDEP requests clarification regarding this statement as profiling is typically completed before a sampling program is initiated.

The Department notified LE in its review of the 2nd Quarter Menitoring Report 2004 that these requirements must be completed. Therefore, LE shalf either complete these requested tasks or provide an acceptable explanation as to why they have not been completed.

Drainage Channel Surface Water Sampling: The report states that surface water samples were collected at SW-5 and SW-7 in the Air Products Drainage Ditch only. As stated in previous comments, the known discharge points (areas of sheen) at the Rockaway River and the Drainage Ditch must be sampled immediately or during the next quarterly event. Surface water sampling at the discharge points shall be added to the quarterly monitoring event and sampled quarterly

Should you have any questions please contact me at (609) 633-1416.

នាក់ខ្លួននៅក្រុមមានជាត្រូវបាន នៅពី ស្ត្រីនៅជនជាំប្រជាធិបត្តសណ្តាលមានជាន់ ផ្តាំ

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Bureau of Case Management

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C: Nick Clevett, RMT Steven Cipot, USEPA George Blyskun, BGWPA John Prendergast, BEERA

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Appendix C Abandonment Forms



Fax Cover Sheet

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Company:	RMT	يوالمشاهرة بمعر بينيدو والمستند الماري والمتالة		Managament announced account to the common party as being specified.
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DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

WELLA	BANDUN	MIENI KEPUK	0- 4/2
MAIL TO: Bureau of Water Allocation		WELI	PERMIT # <u>25 - 76 3</u> of well sealed
PO Box 426		·	17-9-04
Trenton, NJ 08625-0426		DATE WELL SEALED	
PROPERTY OWNER L. E. Cal	penter		-
ADDRESS 1301 E 9th S	1. — 1	reland, OH	44114
WELL LOCATION 170 No 17	Main S-	t Wharton	Morris Cit
Street & No., Towns	hip, County	- 1	801
$\frac{MW-2(R)}{Well No.}$	<i>)</i>		Block No.
Aett Mo:		L.	DIOUR ATV.
USE OF WELL PRIOR TO ABANDONMENT:	Moni	10r	
REASON FOR ABANDONMENT: 10	longer	needed	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF NEV	W WELL
TOTAL DEPTH OF WELL 13)	Cross-section of scaled well	Draw a skotch showing distant nearest roads, buildings, etc.	ce and relations of well site to
DIAMETER CASING LENGTH 2" 3.061	-11		is ST.
SCREEN LENGTH		1	
NUMBER OF CASINGS	3	•	150
MATERIAL USED TO DECOMMISSION WELL:		400	
Gallons of Water		\$	Q .
Lbs. of Cement Lbs. of Bentonite		AS-BUILT WELL LOCA	
Lhs. of Sand/Gravel	N	(NAD 83 HORIZONTAL D I STATE PLACE COORDINATE IN	7 · · · · · · · · · · · · · · · · · · ·
(none if well is contaminated)	NOR	THING: EASTI	NG:
FORMATION: Consolidated	LATITUDE:	OR LONGIT	UDE:
Unconsolidated To permit adequate grouting, the casing should re			
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IF "YES", AUTHORIZATION GRANTED BY_	(NIT	ONON	(Date)
Was an alternative decommissioning method used			Pofficial? TYES NO
IF "YES", authorization granted by			ON
I certify that this well was sealed in accordan		DEP Official)	(Date)
Jett Seagreaves	Bou	nd Brook. NJ	12-9-04
Performing Work (Print or Type)	() Les no	Address	Mailing Date
Name of NJ Licensed Well Driller	Signature of M Lie	censed Well Driller Performing	Work Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

	WELL PERMIT # 25 - 33 405
MAIL TO: Bureau of Water Allocation	of well sealed
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
ITERIOR, NJ ODDES-0420	
PROPERTY OWNER L.E. Carp	pen Tet
ADDRESS 1301 E 9+h 5	+ Cleveland, OH 74/14
WELL LOCATION 170 No., Towns	in St Wharton Morris Cty
	ntp, Country 7
<u>MS-115</u>	
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monitor
REASON FOR ABANDONMENT: //o /	onger needed
WAS A NEW WELL DRILLED? YES	
TOTAL DEPTH OF WELL 13)	Cross-section Draw a sketch showing distance and relations of well site to
DIAMETER	of sealed well nearest roads, buildings, etc. ROSS ST.
CASING LENGTH	N033 31
SCREEN LENGTH	
NUMBER OF CASINGS	100
MATERIAL USED TO DECOMMISSION WELL:	
Gallons of Water	100
Lbs. of Cement	
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
Lbs. of Sand/Gravel (none if well is contaminated)	NI STATE PLACE COORDINATE IN US SURVEY FEET
(none if well is committinged)	NORTHING: EASTING:
FORMATION: Consolidated	OR
Unconsolidated	
To permit adequate grouting, the casing should re- be removed. Pressure grouting is the only accepts	main in place, but ungrouted liner pipes or any other obstructions must
De lemoved. F) easure ground is the only accept	
WAS CASING LEFT IN PLACE? YES C	INO CASING MATERIAL: Stainless Stee!
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NJDEP Official) (Date)
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEP official? TYES NO
IF "YES", authorization granted by	(NJDEP Official) (Date)
I certify that this well was sealed in accordan	
Jeff Seagreaves	Bound Brook NJ 12-7-07
Performing Work (Print or Type)	Address Mailing Date
Name of NJ Licensed Well Driller	Signature of NJ Licensed Well Driller Performing Work Registration #
	Signature of NI Licensed Well Driller Performing Work Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

		WELL PERMI	T# <u>25-38804</u>
MAIL TO: Bureau of Water Allocation PO Box 426			ot meil 266180
Trenton, NJ 08625-0426	عة من من جو أن	DATE WELL SEALED 12-9	
PROPERTY OWNER L.E. Carpe	enter		
ADDRESS 1301 E 9th St	- Cleve		
WELL LOCATION 170 No. Towns	cin St	Whatton Mort	is Cty
MW-20		2 80	2
Well No.	1	Lot No. B	lock No.
USE OF WELL PRIOR TO ABANDONMENT:	Monito	<u> </u>	and the second s
REASON FOR ABANDONMENT: No	longer	needed	· · ·
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL	Cross-section of scaled well	Draw a sketch showing distance and releasest roads, buildings, etc.	lations of well site to
DIAMETER CASING LENGTH	11	ROSS ST.	
SCREEN LENGTH		1	
NUMBER OF CASINGS		الم ا)
MATERIAL USED TO DECOMMISSION WELL:			
Gallons of Water		600	1.
Lbs, of Cement		AS-BUILT WELL LOCATION	
Lbs. of Bentonite Lbs. of Sand/Gravel		(NAD 83 HORIZONTAL DATUM)	₽N
(none if well is contaminated)	N	ij state place coordinate in US Survi	į.
PORMATION: Consolidated	NOR	THING: EASTING:	
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To permit adequate grouting, the casing should re-	main in place, but	ungrouted liner pipes or any other obstruc	ctions must
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Was an alternative decommissioning method used	i and/or approval t		
IF "YES", authorization granted by	OUT.	ONON	(Date)
I certify that this well was sealed in accordan			12-0-04
Jeff Seagreaves	Bou	nd Brok, N)	12-7-01
Performing Work (Print or Type) Name of NJ Licensed Well Driller	(Sey	Lenne	J16797
	Signature of NJ Li	censed Well Driller Performing Work	Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

		WELL PERMIT # 25-37/3
MAIL TO: Bureau of Water Allocation PO Box 426		of well sealed
Trenton, NJ 08625-0426	DATE WELL S	EALED 12-9-04
PROPERTY OWNER L.E. Carpe	enter	
ADDRESS 1301 E 9th S	it Cleveland, D	H 44/14
	in St Wharton	Morris Cty
Street & No., Towns	nip, County	B01
MW145 Well No.	Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monitor	
11.	longer needed	
REASON FOR ABANDONMENT: // 0		
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MATERIAL USED TO DECOMMISSION WELL:		
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Lbs. of Bentonite		WBLL LOCATION A N
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To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accept	ed method.	
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WERE OTHER OBSTRUCTIONS LEFT IN WE	IL.? DYES NO WHAT WERE	THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NJDEP Official)	ON
Was an alternative decommissioning method use	d and/or approval to decommission gran	
IF "YES", authorization granted by	(NIDEP Official)	ON(Date)
I certify that this well was sealed in accordan	ice with N.J.A.C. 7:9D3 exseq.	NT 12-9-04
Jeff Seagreaves	Bound Dhook, Address	Mailing Date
Performing Work (Print or Type) Name of NI Licensed Well Driller	(Derreum	<u> 51699/</u>
LABILIE OF INT DISCUSSION ACTI DITTIES	Signature of NKLicensed Well Priller F	erforming Work Registration #
COPIES: White - Water Allocation	n Yellow - Owner Pink -	Health Dept. Goldenrod - Driller

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation		WE	LL PERMIT # 25-4633
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALED	12-9-04
PROPERTY OWNER L.E. Care	penter		45 34 34 54
ADDRESS 1301 E 9th		eveland. OH	44114
WELL LOCATION 170 No MA	ain St	Wharton	Morris Cty
Street & No., Townsl	hip, County	2	801
MW-1(R)) <u> </u>	X	Block No.
Well No.	mL	ot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	11/oni To	<u> </u>	· · · · · · · · · · · · · · · · · · ·
REASON FOR ABANDONMENT: //o	onger n	eeded	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF N	EW WELL
TOTAL DEPTH OF WELL DIAMETER 23 4"	Cross-section of sealed well	Draw a sketch showing distancement roads, buildings, etc.	nce and relations of well site to
CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS 15.57		Acsi	200
MATERIAL USED TO DECOMMISSION WELL:		\$ 500	-0
Gallons of Water Lbs. of Cement		No	
Lbs. of Bentonite		AS-BUILT WELL LOC (NAD 83 HORIZONTAL	
Lbs. of Sand/Gravel (none if well is contaminated)	N.	STATE PLACE COORDINATE II	
	NOR'	·	TING:
FORMATION: Consolidated Unconsolidated	LATITUDE:	OR 	TUDE: '"
To permit adequate grouting, the casing should removed. Pressure grouting is the only accepte			
WAS CASING LEFT IN PLACE? YES	NO CASI	ING MATERIAL: Sta	inless Steel
WERE OTHER OBSTRUCTIONS LEFT IN WEI	LL? DYES	NO WHAT WERE THE OB	STRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	(NID	EP Official)	(Date)
Was an alternative decommissioning method used	and/or approval to	decommission granted by a L	
IF "YES", authorization granted by	OID	EP Official)	ON(Date)
I certify that this well was sealed in accordance Jeff Seagreaves	• '	7:9D-3 et seg.	12-9-04
Performing Work (Print or Type)	1	Address	Mailing Date
Name of NJ Licensed Well Driller	ignature of NYTY	ensed Well Driller Performing	Work Registration #
. ·	Photograph (v.)41 Fig.		1.oru zoetoracion il

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DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

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	44 17 44	

	WELL PERMIT # 25-370/7-
MAIL TO: Bureau of Water Allocation PO Box 426	of well sealed
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER L.E. Carpen	ter
ADDRESS 1301 E 9th St	Cleveland, OH 44/14
WELL LOCATION 170 No Ma	
Street & No., Township MW 16 I	2 801
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor
REASON FOR ABANDONMENT: No	longer needed
WAS A NEW WELL DRILLED? YES Y	
TOTAL DEPTH OF WELL	Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.
DIAMETER CASING LENGTH SCREEN LENGTH 10'	
NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL:	100
Gallons of Water Lbs, of Cement	400
Lbs. of Bontonite Lbs. of Sand/Gravel	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET
(none if well is contaminated)	NORTHING: EASTING:
FORMATION: Consolidated Unconsolidated	LATITUDE: ' LONGITUDE: '
To permit adequate grouting, the easing should rembe removed. Pressure grouting is the only accepted	ain in place, but ungrouted liner pipes or any other obstructions must method.
/ ·	NO CASING MATERIAL: STEEL
WERE OTHER OBSTRUCTIONS LEFT IN WEL	L? TYES TO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	(NJDEP Official) (Date)
Was an alternative decommissioning method used a	and/or approval to decommission granted by a DEP official? TYES NO
IF "YES", authorization granted by	(NJDEP Official) ON(Date)
I certify that this well was sealed in accordance Jeff Seagrea VES	e with N.J.A.C. 7:9D-3 et sea Brook, NJ 12-9-04
Performing Work (Pfint or Type) Name of NJ Licensed Well Driller	Address Shature of M Licensed Well Driller Performing Work Registration #
Sy	gnature of M Licensed Well Driller Performing Work Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Burease of Water Allocation PO Box 426 Therstop, NJ 08625-0426 DATE WELL SEALED PROPERTY OWNER L. Capenter ADDRESS 30 E 9th 5t Cleve and 0th 44 14 WELL LOCATION 170 Winn 5t What to What to Block No. Street & No., Township, County Wall No. Los No. Block No. Was A NEW WELL DRILLED? YES NO TOTAL DEPTH OF WELL 17 10 10 10 10 10 WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL TOTAL DEPTH OF WELL 17 10 10 10 10 WAS EXERNED LENGTH 10 10 10 10 10 WAS EXERNED LENGTH 10 10 10 10 WAS TO Bentonite 20 10 10 10 10 WAS CASING LENGTH 10 10 10 10 WAS CASING LETT IN PLACE? YES NO CASING MATERIAL VC WERE OTHER OBSTRUCTIONS LEFT IN WELL? 12 10 10 10 WAS CASING LEFT IN PLACE? YES NO CASING MATERIAL VC WERE OTHER OBSTRUCTIONS LEFT IN WELL? 12 2 3 10 Was an alternative decommissioning method used ant/or approval to decommission granted by a DEP official? 12 9 0 Was an alternative decommissioning method used ant/or approval to decommission granted by a DEP official? 12 9 0 Was an alternative decommissioning method used ant/or approval to decommission granted by a DEP official? 12 9 0 JOHN DEPTH OF WELL 12 9 0 JOHN DEP Official) ON ON ON ON ON JOHN DEPTH OF WELL 12 12 12 12 12 12 JOHN DEPTH OF WELL	- TERRIE	25-3	3 409
PROPERTY OWNER Lo E. Capenter ADDRESS 30 E 9th St Cleveland, OH 44114 WELL LOCATION 170 No Main St. What the Morris Cty Street & No., Township, County Well No. USE OF WELL PRIOR TO ABANDONMENT: WAS A NEW WELL DERILLED? YES NO CORST-section Of sealed well TOTAL DEPTH OF WELL JUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: 18		WELL PERMIT #	aled
ADDRESS 30 E. 9th St Cleve land, OH 44114 WELL LOCATION 170 No Main St. What to Metris Cty Street & No., Township, County MW 16 S Well No. Lot No. Block No. USE OF WELL PRIOR TO ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FORMATERIAL USED TO DECOMMISSION WELL: 101AMETER CASING LENGTH SCREEN LENGTH 102 No Scaled well of scaled well nearest roads, buildings, oc. 188 Lb., of Cament 105 is Centential Council of Scaled well No State No. S		DATE WELL SEALED 12-9-04	
ADDRESS 30 E, 9th St Cleve and OH 44114 WELL LOCATION 170 No Main St. Wher ton Morris Cty Street & No., Township, County MW 16 S Well No. Lot No. Block No. USE OF WELL PRIOR TO ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO WELL: WAS A NEW WELL DRILLED? WAS A NEW WELL DRILLED? WAS GASING LENGTH WERE OTHER OBSTRUCTIONS LEFT IN WELL? WES An alternative decommissioning method used and/or approval to decommission granted by a DEP official? Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? WAS A SAULT WELL DOCATION (NIDEP Official) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? Types No If "YES", authorization granted by (NIDEP Official) WAS A MITCH OR TYPE) Address MAGNESS AND M	1 E Color		
Street & No., Township, County No. No. No. No. No. No. No. No. No.	PROPERTY OWNER L.E. CALPE		
Street & No., Township, County Mw S	ADDRESS 130 E. 944 S		
WELL PRIOR TO ABANDONMENT: WEASON FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL TOTAL DEPTH OF WELL TOTAL DEPTH OF WELL TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Consolidated Lobs. of Sand/Gravel (none if well is contaminated) FORMATION: Consolidated Unconsolidated Unconsolidated Unconsolidated LATITUDE: ON CASING MATERIAL: WERE OTHER OBSTRUCTIONS LEFT IN WELL? WERE OTHER OBSTRUCTIONS LEFT IN WELL? (NIDEP Official) (NIDEP Official) (Date) (NIDEP Official) (Date) (NIDEP Official) (Date) (Date) PERMIT # OF NEW WELL TOPS WELL TOPS WELL AS BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE HACE COORDINATE IN US SURVEY FEET NORTHING: ON COR (INDEP Official) (Date) (NIDEP Official) (Date) LONGTHUSE (NIDEP Official) (Date) (NIDEP Official) (Date) LONGTHUSE (NIDER) Address Mailing Day Mailing Day (Mailing Day Mailing Day (Mailing Day Mailing Day (Mailing Day Mailing Day Mailing Day Mailing Day (Mailing Day Mailing Day Ma			
USE OF WELL PRIOR TO ABANDONMENT: ### REASON FOR ABANDONMENT: ### WAS A NEW WELL DRILLED? YES NO	150	2 801	
WAS A NEW WELL DRILLED? YES NO FERMIT # OF NEW WELL TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: 10	Well No.	Lot No. Block No.	
WAS A NEW WELL DRILLED? YES NO FERMIT # OF NEW WELL TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: 10	THE OF WELL DRIOP TO ARANDONMENT	Monitor	
WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH SCREEN LENGTH MUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Consolidated Conso	1/		
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: 10	REASON FOR ABANDONMEN I: 700	July Helder	
TOTAL DEPTH OF WELL OF sealed	WAS A NEW WELL DRILLED? YES	A STATE OF THE PROPERTY OF THE	
DIAMETER CASING LENGTH CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: 10	TOTAL DEPTH OF WELL 171		ite to
CASING LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Material Used to Decommission Well:	DIAMETER		
MATERIAL USED TO DECOMMISSION WELL: 4			
MATERIAL USED TO DECOMMISSION WELL: 4		1 2 000	1
Los. of Cement Los. of Sand/Gravel Los. of Sand/Gravel (none if well is contaminated) Consolidated Consolidated Los. of Consolidated Consolidated Los. of Sand/Gravel (none if well is contaminated) Northing: Consolidated LATITUDE: Consolidated LATITUDE: LONGITUDE: Consolidated LATITUDE: LONGITUDE: Consolidated LATITUDE: LONGITUDE: Consolidated LATITUDE: Consolidated Consolidated LATITUDE: Consolidated LATITUDE: Consolidated Consolidated LATITUDE: Consolidated LATITUDE: Consolidated Con			1
Los. of Cement Los. of Sand/Gravel Los. of Sand/Gravel (none if well is contaminated) Consolidated Consolidated Los. of Consolidated Consolidated Los. of Sand/Gravel (none if well is contaminated) Northing: Consolidated LATITUDE: Consolidated LATITUDE: LONGITUDE: Consolidated LATITUDE: LONGITUDE: Consolidated LATITUDE: LONGITUDE: Consolidated LATITUDE: Consolidated Consolidated LATITUDE: Consolidated LATITUDE: Consolidated Consolidated LATITUDE: Consolidated LATITUDE: Consolidated Con	MATERIAL USED TO DECOMMISSION WELL:	" 目 Z ₂ ∞′	1
Los. of Cement Los. of Sand/Gravel Los. of Sand/Gravel (none if well is contaminated) Consolidated Unconsolidated Unconsolidated LATITUDE: Unconsolidated LATITUDE: Unconsolidated LATITUDE: LONGITUDE: Unconsolidated LATITUDE: LONGITUDE: LONGITUDE: VAS CASING LEFT IN PLACE? WERE OTHER OBSTRUCTIONS LEFT IN WELL? Were other obstructions must Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? Was an alternative well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. LONGITUDE: NORTHING: RAS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: LATITUDE: CORDITUDE: LATITUDE: LATITUDE			
Lbs. of Sand/Gravel (none if well is contaminated) Consolidated (none if well is contaminated) NORTHING: BASTING: BASTING:			ANI
(none if well is contaminated) NORTHING:		(NAD 83 HORIZONTAL DATUM)	TN
FORMATION: Consolidated LATITUDE: "LONGITUDE: "LONGITU			1
Unconsolidated LATITUDE:	EODM ATION: Consolidated		1
WAS CASING LEFT IN PLACE? YES NO CASING MATERIAL: WERE OTHER OBSTRUCTIONS LEFT IN WELL? YES NO WHAT WERE THE OBSTRUCTIONS: IF "YES", AUTHORIZATION GRANTED BY ON (NJDEP Official) (Date) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? YES NO IF "YES", authorization granted by (NJDEP Official) (Date) I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. (Determined by the se			
WAS CASING LEFT IN PLACE? YES NO CASING MATERIAL: WERE OTHER OBSTRUCTIONS LEFT IN WELL? YES NO WHAT WERE THE OBSTRUCTIONS: IF "YES", AUTHORIZATION GRANTED BY ON (NJDEP Official) (Date) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? YES NO IF "YES", authorization granted by ON (NJDEP Official) (Date) I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Jeff Seagreaves Bound Brook (Tint or Type) Name of NJ Licensed Well Driller Address Mailing Date Name of NJ Licensed Well Driller	To permit adequate grouting, the casing should re	remain in place, but ungrouted liner pipes or any other obstructions must	-
WERE OTHER OBSTRUCTIONS LEFT IN WELL?	be removed. Pressure grouting is the only accepte	eted method.	
WERE OTHER OBSTRUCTIONS LEFT IN WELL?	WAS CASING LEFT IN PLACE? YES D	□NO CASING MATERIAL:	
IF "YES", AUTHORIZATION GRANTED BY	•	The True with the computations.	
(NJDEP Official) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? If "YES", authorization granted by (NJDEP Official) (Date) (NJDEP Official) (Date) I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Deff Sea greaves Performing Work (Print or Type) Name of NJ Licensed Well Driller (Mailing Date J.649	WERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? LIYES AND WHAT WERE THE OBSTRUCTIONS:	
Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? If "YES", authorization granted by	IF "YES", AUTHORIZATION GRANTED BY_		
I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Jeff Seagreaves Bound Brook 12-9-04 Performing Work (Print or Type) Address Mailing Date Name of NJ Licensed Well Driller President Name of NJ Licensed Well Driller Name of NJ Licensed Well Dr	Was an alternative decommissioning method used		NO
I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Jeff Sea greaves Bound Brook 12-9-04 Performing Work (Print or Type) Name of NJ Licensed Well Driller Mailing Date J.699	IF "YES", authorization granted by		
Performing Work (Print or Type) Name of NJ Licensed Well Driller Address Mailing Date J 699		nce with N.J.A.C. 7:9D-3 et seq. /	9- n4
Name of NJ Licensed Well Driller			Date
	Name of NJ Licensed Well Driller	Jegrenn J169	91_
	,	Signature of NJ Lifensed Well Driller Performing Work Registre	ition#

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

<u></u>	JADANDONNIBNI RELIGIORE	<u> 25-34/37</u>
MAIL TO: Bureau of Water Allocation	WELL PERMIT	of well sealed
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9	-04
PROPERTY OWNER L.E. Ca	rpenter	
ADDRESS 1301 E 94	ist Cleveland, OH 4411;	7
WELL LOCATION 170 No. Street & No. 7	Main St Wharton Mort	's CTy
MW 147	- 2	01
Well No.	Loi No. Bi	ock No.
•	m L	
USE OF WELL PRIOR TO ABANDONM		Auditoria is
REASON FOR ABANDONMENT:	lo longer needed	
WAS A NEW WELL DRILLED? YES	PERMIT # OF NEW WELL	
17)	Cross-section Draw a sketch showing distance and rela	tions of well site to
TOTAL DEPTH OF WELL DIAMETER 2"	of scaled well nearest roads, buildings, ctc.	
CASING LENGTH 8	KOSS ST.	-
SCREEN LENGTH NUMBER OF CASINGS	<u>-</u> 2	
MATERIAL USED TO DECOMMISSION W		800
1		
Gallons of Water Lbs. of Coment	3 2 600	٥ ع
Lhs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	♠N
Lbs. of Sand/Gravel (none if well is contamina	NJ STATE PLACE COORDINATE IN US SURVE	Y FEST
•	NORTHING: EASTING:	
FORMATION: Consolidated Unconsolidated	LATITUDE: ' LONGITUDE:	
To permit adequate grouting, the casing she	ould remain in place, but ungrouted liner pipes or any other obstruc	ions must
he removed. Pressure grouting is the only a		
WAS CASING LEFT IN PLACE? XY	ES DNO CASING MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT	N WELL? DYES NO WHAT WERE THE OBSTRUCTION	NS:
IF "YES", AUTHORIZATION GRANTED	BYON(IDEP Official) (I	Date)
Was an alternative decommissioning metho	od used and/or approval to decommission granted by a DEP official	
IF "YES", authorization granted by	(NJDEP Official)	(Date)
I certify that this well was sealed in acc	ordance with N.J.A.C. 7:9D-3 et seq.	17-9-04
Jeff Seagreaves	Sound Brook, N)	Multing Date
Performing Work (Print or Type) Name of NJ Licensed Well Driller	J Segreaux	Mailing Date
FAUTTIN MT TAN WARMINGS LAND SEASTER	Signature of NJ Ucensed Well Driller Performing Work	Registration #
•		

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

WELLAI	BANDONMENT REPORT
MAIL TO: Bureau of Water Allocation PO Box 426 Trenton, NJ 08625-0426	WELL PERMIT #25-51953 of well sealed DATE WELL SEALED 12-9-64
PROPERTY OWNER LE COrper	yer
ADDRESS 1301 E 9th 5	t. Cleveland OH 44114
WELL LOCATION 170 No M	bin St Wharton Morris Cty
RWI	2 801
Well No.	Lot No. Recovery
USE OF WELL PRIOR TO ABANDONMENT:	longer needed
WAS A NEW WELL DRILLED? YES	NO PERMIT# OF NEW WELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement	Cross-section of sealed well Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc. NO. Man
Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: EASTING:
FORMATION: Consolidated Unconsolidated	LATITUDE: ' " LONGITUDE:"
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accepted was casing LEFT in PLACE?	-
	BLL? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(VIDEP Official) (USE)
•	d and/or approval to decommission granted by a DEP official? DYES NO
IF "YES", authorization granted by	(NJDEP Official) (Date)
I certify that this well was sealed in accordant	150000 15000 101 10 109
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Signature of NJ Licensed Well Driller Performing Work Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

<u>WELL AF</u>	BANDONMENT REPORT
MAIL TO: Bureau of Water Allocation	WELL PERMIT # \$\frac{5-5195}{500000000000000000000000000000000000
PO Box 426	of well sealed
Trenton, NJ 08625-0426	DATE WELL SEALED
PROPERTY OWNER LE COPPU	nter
ADDRESS 1301 E 9th 6	St Cleveland OH 44114
WELL LOCATION 170 No MO	ain St Wharton Morris Cty.
Street & No., Townsh	ip, County
RWZ	
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Recovery
REASON FOR ABANDONMENT: NO 10	omer needed
WAS A NEW WELL DRILLED? TYES	NO PERMIT # OF NEW WELL
TOTAL DEPOSIT OF MELL	Cross-section Draw a sketch showing distance and relations of well site to
TOTAL DEPTH OF WELL DIAMETER	of scaled well nearest roads, buildings, etc.
CASING LENGTH	
SCREEN LENGTH	120
NUMBER OF CASINGS	
MATERIAL USED TO DECOMMISSION WELL:	
Gallons of Water	
188 Lbs. of Cement	
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
Lbs. of Sand/Gravel	NI STATE PLACE COORDINATE IN US SURVEY FEET
(none if well is contaminated)	NORTHING: EASTING:
FORMATION: Consolidated	OR
Unconsolidated	LATITUDE: LONGITUDE; "
To permit adequate grouting, the casing should rem	nain in place, but ungrouted liner pipes or any other obstructions must
be removed. Pressure grouting is the only accepted	i memod.
WAS CASING LEFT IN PLACE? XIYES □	NO CASING MATERIAL: AFE STAINLESSTEE
WERE OTHER OBSTRUCTIONS LEFT IN WEL	L? DYES DINO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEP official? TYES NO
IF "YES", authorization granted by	ONON
I certify that this well was sealed in accordance	(NIDEP Official) (Date)
JEFF SEBGREAVES	Bound Brook NJ 12-9-04
Performing Work (Print or Type)	Address Mailing Date
Name of NJ Licensed Well Driller	Vieream J16991
Si	gnature of Nu Licensed Well Driller Performing Work Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

WELL ABANDONMENT REPORT MAIL TO: Bureau of Water Allocation PO Box 426 Trenton, NJ 08625-0426 Township. County pcover-USE OF WELL PRIOR TO ABANDONMENT REASON FOR ABANDONMENT: WAS A NEW WELL DRILLED? ☐ YES 🕅 PERMIT # OF NEW WELL Draw a sketch showing distance and relations of well site to Cross-section TOTAL DEPTH OF WELL of scaled well nearest roads, buildings, otc. DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement AS-BUILT WELL LOCATION Lbs. of Bentonite **♣**N (NAD 83 HORIZONTAL DATUM) Lbs. of Sand/Gravel NJ STATE PLACE COORDINATE IN US SURVEY FEET (none if well is contaminated) **EASTING:** FORMATION: Consolidated LATTTUDE: ____ " LONGITUDE: Unconsolidated To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method. WAS CASING LEFT IN PLACE? MYES DNO CASING MATERI WERE OTHER OBSTRUCTIONS LEFT IN WELL? DYES ANO WHAT WERE THE OBSTRUCTIONS: IF "YES", AUTHORIZATION GRANTED BY_ (Date) (NJDEP Official) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?

TES IF "YES", authorization granted by _ (NJDEP Official) (Date) I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. SEBGREAVES Mailing Date Performing Work (Print or Type) Address Name of NJ Licensed Well Driller Signature of NJ Lizensed Well Driller Performing Work Registration #

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DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT	# 25-42406 of well sealed
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9	-04
PROPERTY OWNER L.E. Caro	enter	n- n- n- n- n-
ADDRESS 130/ E 9th	St. Cleveland, OH 44.	114
WELL LOCATION 170 No. Towns	Main St Wharton Mot	-His Cty
WP-C4	1,30 301	1. 703
Well No.	Lot No. Bi	ock No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monitor	
REASON FOR ABANDONMENT: //o	longer needed	
WAS A NEW WELL DRILLED? TYES		-
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated) FORMATION: Consolidated Unconsolidated To permit adequate grouting, the casing should remained.	Cross-section of sealed well nearest roads, buildings, etc. AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVE NORTHING: LATITUDE: LATITUDE: Latin in place, but ungrouted liner pipes or any other obstructions.	AN Y FEET
be removed. Pressure grouting is the only accepte	d method.	
WAS CASING LEFT IN PLACE? YES		
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES DINO WHAT WERE THE OBSTRUCTION	NS:
IF "YES", AUTHORIZATION GRANTED BY_	(NIDEP Official) ON	Date)
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEP official	
IF "YES", authorization granted by	(NJDEP Official)	(Date)
I certify that this well was sealed in accordance of Seagreaves		12-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Address ignature of NJ Licensed Well Driller Performing Work	Mailing Date J 16 991 Registration #
7		

New Jersey Department of Environmental Protection Water Supply Blement - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMI	T# 25-42405 of well sealed
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED	
PROPERTY OWNER L. E. Carp	enter	
ADDRESS 1301 E 9th	St. Cleveland, OH 4	4114
WELL LOCATION 170 No., Towns		ris Cty
<i>WP</i> − <i>C</i> 3 Well No.	1,30 30	703
USE OF WELL PRIOR TO ABANDONMENT:	Monitor .	IOUR ING.
REASON FOR ABANDONMENT: 1	o longer needed	
WAS A NEW WELL DRILLED? YES		
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well nearest roads, buildings, etc.	ations of well site to
MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURV	EY FEET
FORMATION: Consolidated Unconsolidated	NORTHING: EASTING: OR LATITUDE: ' LONGITUDE:	
To permit adequate grouting, the casing should report be removed. Pressure grouting is the only accepted	main in place, but ungrouted liner pipes or any other obstructed method.	tions must
WAS CASING LEFT IN PLACE? YES	INO CASING MATERIAL:	
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES XNO WHAT WERE THE OBSTRUCTION	ON\$:
IF "YES", AUTHORIZATION GRANTED BY_	(NUDEP Official) ON	Date)
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEP official	
IF "YES", authorization granted by	(NJDEP Official)	(Date)
I certify that this well was sealed in accordance Jeff Seagreaves	The state of the	12-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Address ignature of NJ Licensed Well Driller Performing Work	Mailing Date 7/699/
	Rusents of tal tricelised Met Dunet Settolking Mote	Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426			WELL PERMIT # _	of well sealed
Trenton, NJ 08625-0426		DATE WELL SEALE	D 12-9	<u>- 04</u>
PROPERTY OWNER L.E. Carpe	en tet			
ADDRESS 1301 E 9th S	+ Ckve	land, OH	44114	
WELL LOCATION 170 No 170 No., Towns		Wharton	Morris	<u>Cty</u>
$\omega P - C2$	•		301.7	03
Well No.		ot No.	Block	No.
USB OF WELL PRIOR TO ABANDONMENT.	Monitor			
REASON FOR ABANDONMENT: No	longer n	eeded		
WAS A NEW WELL DRILLED? I YES		PERMIT # OF		
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated) FORMATION: Consolidated To permit adequate grouting, the casing should report to be removed. Pressure grouting is the only accepted.	NJ S NORTH LATITUDE: main in place, but und method.	OR LO	LOCATION TAL DATUM) TE IN US SURVEY FI TASTING: NGITUDE: y other obstruction	♣N RET
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES AN	O WHAT WERE THE	OBSTRUCTIONS	·
IF "YES", AUTHORIZATION GRANTED BY_	AITE	P Official)	(Date)	
Was an alternative decommissioning method used				
IF "YES", authorization granted by		Dom: N	ON	(Deta)
I certify that this well was sealed in accordance Jeff Seagleaves Performing Work (Print or Type)	•	<i>y y</i>) • (<i>N</i> 5	(Date) 12-9-04 Mailing Date
Name of NJ Licensed Well Driller	igrature of NJ Escer	nsed Well Driller Perform	ing Work	Registration #
	•			

SUMMIT DRILLING

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DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT	
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9	of well sealed 7-04
PROPERTY OWNER L. E. CA	roenter	
ADDRESS 1301 E 9th	St. Cleveland OH 44114	
WELL LOCATION 170 No 1	Main St Whatton Morri	's Cty
Street & No., To		-
WP-CI		703
Well No.	\sim T	ock No.
USE OF WELL PRIOR TO ABANDONMEN	T. Monitor	
REASON FOR ABANDONMENT:	Vo longer needed	
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL DIAMETER 11. 5		tions of well site to
Casing Length O-5		
SCREEN LENGTH NUMBER OF CASINGS		850
MATERIAL USED TO DECOMMISSION WE	1 2 Z	
1	5 600	
Gallons of Water Lbs. of Cement		
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	♠N
Lbs. of Sand/Gravel (none if well is contaminate	ni state place coordinate in us survey	FEET
	NORTHING: BASTING:	
FORMATION: Consolidated Unconsolidated	LATITUDE: ' " LONGITUDE:	
To permit adequate grouting, the casing should be removed. Pressure grouting is the only acc	d remain in place, but ungrouted liner pipes or any other obstruction of method.	ons must
	- PVC	
WAS CASING LEFT IN PLACE? XYES	□NO CASING MATERIAL: 7 V	<u></u>
WERE OTHER OBSTRUCTIONS LEFT IN	WELL? DYES INO WHAT WERE THE OBSTRUCTION	NS :
IF "YES", AUTHORIZATION GRANTED B		
Was an alternative decommissioning method t	(NIDEP Official) (Dansed and/or approval to decommission granted by a DEP official?	
IF "YES", authorization granted by	ON	
I certify that this well was sealed in accom	(NIDEP Official) lance with N.J.A.C. 7:9D/3 et seq.	(Date)
Jett Seagreaves	Bound Brook /V J	12-1-07
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Address	Mailing Date
•	Signature of NI Licensed Well Driller Performing Work	Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426 Trenton, NJ 08625-0426	WELL PERM DATE WELL SEALED	01 well sealed 9-04
PROPERTY OWNER L.E. Carp		
	St. Cleveland, OH 4411	14
WELL LOCATION 170 No. 170 No., Town	ain St. Whatton Morris	Cty
WP-85	· · · · · · · · · · · · · · · · · · ·	,703
Well No.	Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT	Monitor	
REASON FOR ABANDONMENT: 1/6	longer needed	· · · · · · · · · · · · · · · · · · ·
WAS A NEW WELL DRILLED? TYES	NO PERMIT # OF NEW WEL	L
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section Draw a sketch showing distance and a nearest roads, buildings, etc.	_
MATERIAL USED TO DECOMMISSION WELL Gallons of Water Lbs. of Cernent Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SUR	♠N
FORMATION: Consolidated Unconsolidated	NORTHING: EASTING: OR LONGITUDE: ' LONGITUDE:	
To permit adequate grouting, the easing should be removed. Pressure grouting is the only accept	remain in place, but ungrouted liner pipes or any other obstrated method.	uctions must
WAS CASING LEFT IN PLACE? YES	□NO CASING MATERIAL:	
WERE OTHER OBSTRUCTIONS LEFT IN W	ELL? DYES ONO WHAT WERE THE OBSTRUCT	TONS:
IF "YES", AUTHORIZATION GRANTED BY	(NIDEP Official)	(Date)
Was an alternative decommissioning method us	ed and/or approval to decommission granted by a DEP office	•
IF "YES", authorization granted by	ON	(Date)
I certify that this well was sealed in accords Jeff Sea greaves	(NIDEP Official) unce with N.J.A.C. 7:9D-3 et seq. Bound Brook. NJ	12-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Signer	Mailing Date 5/679/
· · · · · · · · · · · · · · · · · · ·	Signature of NJ Licensed Well Driller Performing Work	Registration #

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMI	T# 25-4241
PO Box 426		of well sealed
Trenton, NJ 08625-0426	DATE WELL SEALED 12-	7-04
PROPERTY OWNER L.E. Car	penter	
ADDRESS 1301 E 9th	St. Cleveland, OH 441	114
WELL LOCATION 170 No. 170 No., Town		Porris Cty
WPB-ID	1,30 30	01,703
Well No.	Lot No.	lock No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor	
REASON FOR ABANDONMENT: No	longer needed	
WAS A NEW WELL DRILLED? YES		
TOTAL DEPTH OF WELL	Cross-section Draw a sketch showing distance and re of scaled well nearest roads, buildings, etc.	lations of well site to
DIAMETER CASING LENGTH	Ross S	T
SCREEN LENGTH		
NUMBER OF CASINGS		b ′
MATERIAL USED TO DECOMMISSION WELL:		·
		İ
Gallons of Water Lbs. of Cement	1 3 2 600	
Lbs. of Bentonite	AS-BUILT WELL LOCATION	♠N
Lbs. of Sand/Gravel	(NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURV	EY FEET
(none if well is contaminated)	NORTHING: EASTING:	<u> </u>
FORMATION: Consolidated	OR	
Unconsolidated	LATITUDE: ' " LONGITUDE:	
To permit adequate grouting, the easing should re- be removed. Pressure grouting is the only accept	main in place, but ungrouted liner pipes or any other obstru- ed method.	ctions must
	Diff	
WAS CASING LEFT IN PLACE? TYPES [
WERE OTHER OBSTRUCTIONS LEFT IN WE	BLL? DYES INO WHAT WERE THE OBSTRUCTI	ONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NIDEP Official) ON	Desa
Was an alternative decommissioning method used	(NIDEP Official) d and/or approval to decommission granted by a DEP official	Date) 17 DYES DINO
IP "YES", authorization granted by	ON_	(D-4-)
I certify that this well was sealed in accordan	(NIDEP Official) use with N.J.A.C. 7:9D-B et seg.	(Date)
Jeff Seagreaves	Bound Brook, NJ	12-7-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Address	Mailing Date
	Signature of Ny Licensed Well Driller Performing Work	Registration #
h	•	

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

	WELL AB	<u>ANDON</u>	IMENT REPORT	
)	MAIL TO: Bureau of Water Allocation		WELL PERMIT	# 25-42410 of well seeled
	PO Box 426			
	Trenton, NJ 08625-0426		DATE WELL SEALED 12 -	9-04
	PROPERTY OWNER L.E. Carpen	ter .		
	ADDRESS 1301 E 9H St		reland OH 441	14
			Whatton More	is Cty
	Street & No., Township.		-	
	<u> WPB-9</u>		30 30/30/30/30/30/30/30/30/30/30/30/30/30/3	703
	Well No.	ن من		ock No.
	USE OF WELL PRIOR TO ABANDONMENT:	Monit	6 <i>†</i>	
	REASON FOR ABANDONMENT: 16	longer	needed	
	WAS A NEW WELL DRILLED? YES Y NO)	PERMIT # OF NEW WELL_	
		oss-section sealed well	Draw a sketch showing distance and relative nearest roads, buildings, etc. Ross	tions of well site to
	DIAMETER	-11	Koss	<u>-72</u>
	CASING LENGTH 10			
	NUMBER OF CASINGS	H	· <u> </u>	00
)	MATERIAL USED TO DECOMMISSION WELL:	目	उ	
	n		0 / 600 &	
	Gallons of Water Lbs, of Cement	4	\$ 6	
	Lbs. of Bentonite		AS-BUILT WELL LOCATION	▲ NI
	Lbs. of Sand/Gravel	· N	(NAD 83 HORIZONTAL DATUM) J STATE PLACE COORDINATE IN US SURVE	↑ N N
	(none if well is contaminated)			, and
	FORMATION: Consolidated	NOR	THING: EASTING:, OR	
		LATITUDE:	LONGITUDE:	ti
	To permit adequate grouting, the casing should remain		ungrouted liner pipes or any other obstruct	ions must
	be removed. Pressure grouting is the only accepted m		0.10	
	WAS CASING LEFT IN PLACE? YES □NO	CAS:	ING MATERIAL:	
	WERE OTHER OBSTRUCTIONS LEFT IN WELL?	YES Y	NO WHAT WERE THE OBSTRUCTION	NS:
	IF "YES", AUTHORIZATION GRANTED BY	NIT.	DEP Official) (D	ate)
	Was an alternative decommissioning method used and	for approval to	o decommission granted by a DEP official	YES KNO
	IF "YES", authorization granted by		ON	· (Data)
	I centify that this well was sealed in accordance v		EP Official) 7:9D-3:et seq. ((Date)
	Jeff Seagreaves		and Brook, NJ	12-9-09
	Performing Work (Print or Type)	-////	Address	Mailing Date
)	Name of NJ Licensed Well Driller	y se	rem	J/679/
	Sign	grate of NJ Lit	Ensed Well Driller Performing Work	Registration #

Signature of NJ Licensed Well Driller Performing Work

New Jersey Department of Environmental Protection Water Supply Element - Burcau of Water Allocation

SUMMIT DRILLING

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMI	
Trenton, NJ 08625-0426	DATE WELL SEALED 12-	of well sealed
PROPERTY OWNER L.E. Carpe	penter	
ADDRESS 1301 E 9 1/3 3	St. Cleveland, OH 44114	
WELL LOCATION 170 No., Town	Pain St Whatton Mari	s Cty
WPB-8		7
Well No.		103
USE OF WELL PRIOR TO ABANDONMENT:	Monitor	
REASON FOR ABANDONMENT: No	longer needed	
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL_	
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well Draw a sketch showing distance and relating nearest roads, buildings, etc.	
AATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Bentonite	AS-BUILT WELL LOCATION	50
Lbs. of Sand/Gravel (none if well is contaminated)	(NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY	♠ N
FORMATION: Consolidated Unconsolidated	NORTHING: EASTING: OR LATITUDE: " LONGITUDE:	
To permit adequate grouting, the casing should ren be removed. Pressure grouting is the only accepte	main in place, but ungrouted liner pines or any other obstruction	ns must
WAS CASING LEFT IN PLACE? YES	INO CASING MATERIAL: VC	
WERE OTHER OBSTRUCTIONS LEFT IN WEI	ELL? DYES NO WHAT WERE THE OBSTRUCTION	\$:
IF "YES", AUTHORIZATION GRANTED BY	ON	•
Was an alternative decommissioning method used	(NJDEP Official) (Data and/or approval to decommission granted by a DEP official?	TYES NO
IF "YES", authorization granted by	ON	
I certify that this well was sealed in accordance	(NJDEP Official) ce with N.J.A.C. 7:9D-3 et seq.	(Dato)
Jett Seagreaves Performing Work (Print or Type)	Bound Brook, NJ	12-9-04
une of NJ Licensed Well Driller	Address	Mailing Pate
CORIES MALAL AREA	ignature of NIL icensed Well Driller Performing Work	Registration #

009 SUMMÍT DRILLING

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT #	<u>25-42 40</u>
PO Box 426		of well sealed
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-	-04
PROPERTY OWNER L.E. Carp	enter	3
	st Cleveland OH 44	114
WELL LOCATION 170 No., Town	Pain St Whatton Morri	s Cty
_		7 7
WPB-7 Well No.		103
JSE OF WELL PRIOR TO ABANDONMENT:	m L	. 140.
REASON FOR ABANDONMENT: No	longer needed	
WAS A NEW WELL DRILLED? 🔲 YES 🙍	Y NO PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH CCREEN LENGTH JUMBER OF CASINGS	Cross-section of scaled well nearest roads, buildings, etc. ROSS 5.7	ons of well site to
Gallons of Water Lbs. of Cement Lbs. of Bentonite		70
Lbs. of Sand/Gravel (none if well is contaminated)	(NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY F	♠ N
ORMATION: Consolidated Unconsolidated	NORTHING: EASTING: OR LATITUDE: ' LONGITUDE:	
o permit adequate grouting, the casing should re e removed. Pressure grouting is the only accept	emain in place, but ungrouted liner pipes or any other obstruction and method.	s thust
vas casing left in place? Yes [INO CASING MATERIAL;	·
VERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? DYES NO WHAT WERE THE OBSTRUCTIONS	! <u> </u>
F "YES", AUTHORIZATION GRANTED BY_	ON	
/as an alternative decommissioning method used	(NIDEP Official) (Date d and/or approval to decommission granted by a DEP official?	
"YES", authorization granted by	ON_	
certify that this well was sealed in accordan		(Date)
Jett Seagreaves		11-1-07

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT # 25-4240
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER L.E. Car	pentet
ADDRESS 1301 E 944 57	t. Cleveland, OH 44114
WELL LOCATION 170 No Mai	in St. Wharton Morris Cty
Street & No., Town	
WPB - 6' Well No.	
USE OF WELL PRIOR TO ABANDONMENT:	Monitor
A 1	longer needed
WAS A NEW WELL DRILLED? YES A	
10 -1	
TOTAL DEPTH OF WELL DIAMETER /0.5 Z 1)	of sealed well nearest roads, buildings, etc.
CASING LENGTH 6	H (1035 37.
SCREEN LENGTH NUMBER OF CASINGS 1	5 650
MATERIAL USED TO DECOMMISSION WELL:	125
Gallons of Water	
Lbs. of Cement Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 82 MORIZONTAL DATING)
Lbs. of Sand/Gravel	(NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET
(none if well is contaminated)	NORTHING: BASTING:
FORMATION: Consolidated	OR LATITUDE: LONGITUDE:
Unconsolidated To permit adequate grouting the seeing should be	emain in place, but ungrouted liner pipes or any other obstructions must
be removed. Pressure grouting is the only accepta	ed method.
WAS CASING LEFT IN PLACE? YES C	INO CASING MATERIAL:
WERE OTHER OBSTRUCTIONS LEFT IN WE	SLL? LIYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	ON
Was an alternative decommissioning method used	(NJDEP Official) (Date) d and/or approval to decommission granted by a DEP official? TYES PNO
IF "YES", authorization granted by	ON
I certify that this well was sealed in accordan	(NIDEP Official) (Date)
Jeff Seagreaves	Bound Brook, NJ 12-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Address — Mailing Date
· · · · · · · · · · · · · · · · · · ·	Signature of NJ Licensed Well Driller Performing Work Registration #

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DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT # 25-4241
PO Box 426 Trenton, NJ 08625-0426	of well sealed DATE WELL SEALED 12 - 9 - 04
PROPERTY OWNER L.E. Car	pen Ter
ADDRESS 1301 E 9th	St Cleveland, OH 44114
WELL LOCATION 170 No 17	Pain St Wharton Morris Cty
Street & No., Town	
WP- 85 Well No.	
USE OF WELL PRIOR TO ABANDONMENT:	Monitor
REASON FOR ABANDONMENT: No	longer needed
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL
be removed. Pressure grouting is the only accept	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEBT NORTHING: BASTING: OR LATITUDE: LATITUDE: LATITUDE: Companies of any other obstructions must
/-	ELL? DYES ONO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NJDEP Official) (Date)
Was an alternative decommissioning method use	d and/or approval to decommission granted by a DEP official? TYES NO
IF "YES", authorization granted by	(NJDEP Official) (Date)
I certify that this well was sealed in accordanged by Seagraves Performing Work (Print or Type) Name of NJ Licensed Well Driller	
	Signature of NJ Licensed Well Driller Performing Work Registration #

SUMMIT DRILLING PAGE 247 66

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMI	T# <u>25-424</u> /
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-	of well sealed 9-04
PROPERTY OWNER L. E. Car	اً ≥ حبر من من من من من جب بن من عن عن من جب بن من	
ADDRESS 1301 E 9th	St Cleveland OH 44	114
WELL LOCATION 170 No Ma	in St Wharton Mor	ris Cty
Street & No., Town		
<u>wp-84</u>	1,30 301	703
Well No.	Lot No.	lock No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor	
REASON FOR ABANDONMENT: Vo	longer needed	
WAS A NEW WELL DRILLED? YES D	NO PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH	Cross-section of sealed well nearest roads, buildings, etc. ROSS ST.	ations of well site to
SCREEN LENGTH NUMBER OF CASINGS		600
Gallons of Water Lbs. of Cement Lbs. of Bentonite	AS-BUILT WELL LOCATION) AN
Lbs. of Sand/Gravel (none if well is contaminated)	(NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVI	T N
FORMATION: Consolidated Unconsolidated	NORTHING: EASTING: OR LATITUDE: ' LONGITUDE:	\ _ "
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only acceptant	main in place, but ungrouted liner pipes or any other obstructed method.	tions must
WAS CASENG LEFT IN PLACE? YES	NO CASING MATERIAL:	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ILL? DYES NO WHAT WERE THE OBSTRUCTION	ONS:
IF "YES", AUTHORIZATION GRANTED BY_	ON	
Was an alternative decommissioning method used	(NIDEP Official) (I and/or approval to decommission granted by a DEP official	Date) I? DYES NO
IF "YES", authorization granted by	ON	
I certify that this well was sealed in accordan	(NJDEP Official) ce with N.J.A.C. 7:9D-3 et seq. Dound Brook. NJ	(Date) 12-9-04
Performing Work (Pfint or Type)	Address	Mailing Date
Vame of NJ Licensed Well Driller	Signature of NJ Licensed Well Driller Performing Work	Registration #

DWH-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

AAIL TO: Bureau of Water Allocation		W	ELL PERMIT # 25-42 4/7
PO Box 426		•	of well sealed
Trenton, NJ 08625-0426		DATE WELL SEALED	12-9-09
PROPERTY OWNER L. E. Carper			
ADDRESS 1301 E 9th 5	t Cleve	land, OH 4	4114
WELL LOCATION 170 No 177	ain St.	Whatton	Morris Cty.
Street & No., Towns	hip, County		
<u> WP- B3</u>		30	301,703
Well No.		Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Monit	ō <i>t</i>	
REASON FOR ABANDONMENT: 16	longer .	needed	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF N	EW WBLL
TOTAL DEPTH OF WELL	Cross-section		ince and relations of well site to
DIAMETER 20	of sealed well	nearest roads, buildings, etc.	
CASING LENGTH		NOSS S	-
SCREEN LENGTH 101]	. 2	
NUMBER OF CASINGS		12	550
MATERIAL USED TO DECOMMISSION WELL:		2	1
Gallons of Water	1	500	
19 Lbs, of Cement		\$C	
Lbs. of Bentonite		AS-BUILT WELL LOC	
Lbs. of Sand/Gravel	N	(NAD 83 HORIZONȚAL J STATE PLACE COORDINATE I	
(none if well is contaminated)	NOB	THING: BAS	TING:
FORMATION: Consolidated	NOR	OR OR	ING
Unconsolidated	LATITUDE: _	' " LONG	ITUDE:
To permit adequate grouting, the casing should re-		ungrouted liner pipes or any o	ther obstructions must
be removed. Pressure grouting is the only accepte	ed method.	0.14	
WAS CASING LEFT IN PLACE? YES	NO CAS	ING MATERIAL:	
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES	NO WHAT WERE THE OB	STRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	O.T.	ONON	(Date)
Was an alternative decommissioning method used	and/or approval t	o decommission granted by a l	
IF "YES", authorization granted by	O.TT	EP Official)	ON
I certify that this well was sealed in accordan	•	· ·	(Date)
Jeff Seagreaves	Bou	10 1 11-	12-7-04
Performing Work (Print or Type)	() 1	Address	Mailing Date
Vame of NJ Licensed Well Driller	Semantine of NIT T	ensed Well Driller Performing	Work Registration #
,	rememe of 143 Fil	onder went tornier i effolyffliff	AND TANKEROUT IL

SUMMIT DRILLING

DWR-020

New Jersey Department of Environmental Protection

Water Supp	ly clement - bt	TIEBU OF WATER WITC	Canon	
WELLA	BANDON	MENT RE	<u>PORT</u>	0- 10-41
AIL TO: Bureau of Water Allocation	·		WELL PERMIT #	25-424/
PO Box 426		•		of well sealed
Trenton, NJ 08625-0426		DATE WELL SE	ALED /2-)	7-04
PROPERTY OWNER L. E. Carpel	nter	, ha as en es 10 PE		
ADDRESS 1301 E 9th S	it Cleu	reland, o	H 44114	
WELL LOCATION 170 No Ma	ain St	Wharton	Morri	s Cty
Street & No., Towns	hip, County	v.		
ω P- B 2	l,	30	301,	703
Well No.	1	ot No.	Bloc	k No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monin	for .		
No.	Lange	needed		
REASON FOR ABANDONMENT: 700	longer	mcca ca	~	
WAS A NEW WELL DRILLED? YES			# OF NEW WELL_	
TOTAL DEPTH OF WELL 11	Cross-section of sealed well	Draw a sketch show nearest roads, buildi	ing distance and relati	ons of well site to
DIAMETER 2"	OI SEMEO MEN	Ros		
CASING LENGTH	_	1	55 _ 5' M	
SCREEN LENGTH 10"	l H	. 2		•
NUMBER OF CASINGS		•	600	
ATERIAL USED TO DECOMMISSION WELL:	i Fi	8	٠	
7		475	<u>,</u>	
Gallons of Water.		\$	W .	
Lbs. of Cement		A B P I I I I I	ELL LOCATION	A
Lbs. of Bentonite	i '	(NAD 83 HORI	ZONTAL DATUM)	₽N
Lbs. of Sand/Gravel	N	I STATE PLACE COORI	DINATE IN US SURVEY	FEET
(none if well is contaminated)	NOR	THING:	_ EASTING:	
FORMATION: Consolidated			OR	
Unconsolidated	LAJITUDE:		LONGITUDE:	
To permit adequate grouting, the casing should re-	main in place, but	ungrouted liner pipes	or any other obstruction	ons must
be removed. Pressure grouting is the only accepted		•	0.1c	
WAS CASING LEFT IN PLACE? YES C	INO CAS	ING MATERIAL:	PVC	·
WERE OTHER OBSTRUCTIONS LEFT IN WE	ll? Oyes 🕅	NO WHAT WERE	THE OBSTRUCTION	rs: ;
IF "YES", AUTHORIZATION GRANTED BY			_ON	
	(NJI	DEP Official)	Da (Da	
Was an alternative decommissioning method used	and/or approvat t	o decommission grant	ed by a DEF official;	פווש פוום
IF "YES", authorization granted by			ON	(Deta)
Taraster, that this most such as a second-se		DEP Official)	•	(Date)
I certify that this well was sealed in accordant Jeff Seagreaves	Bou		NJ_	12-9-04
Performing Work (Print or Type)	7) 1	Address		Mailing Date

same of NJ Licensed Well Driller

Signature of Ni Licensed Well Driller Performing Work

Registration #

DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

AAIL_TO: Bureau of Water Allocation		WELL PERM	of well sealed
PO Box 426		10	
Trenton, NJ 08625-0426		DATE WELL SEALED 12-	-1-07
PROPERTY OWNER L.E. Carp	enter		
ADDRESS 1301 E 9th S	st Cleve	land, OH 44114	
WELL LOCATION 170 No. 170 No., Town	ain St.	Wharton, Morry	s Cty
<u> </u>	1,3	30 30 Lot No.	1, 703
USE OF WELL PRIOR TO ABANDONMENT:	1		BIOLE IVO.
REASON FOR ABANDONMENT: No			
WAS A NEW WELL DRILLED? YES		PERMIT # OF NEW WEI	L
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS IATERIAL USED TO DECOMMISSION WELL		Draw a sketch showing distance and nearest roads, buildings, etc. ROSS ST.	
Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	1	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) IJ STATE PLACE COORDINATE IN US SUI THING: EASTING:	♣ N
FORMATION: Consolidated Unconsolidated		OR LONGITUDE:	'
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accept	emain in place, but ted method.	ungrouted liner pipes or any other obst	ructions must
	Ino cas		
WERE OTHER OBSTRUCTIONS LEFT IN W	ELL? DYES D	NO WHAT WERE THE OBSTRUC	TIONS:
IF "YES", AUTHORIZATION GRANTED BY_	NJI	ONON	(Date)
Was an alternative decommissioning method use	d and/or approval t	to decommission granted by a DEP offic	eial? DYES NO
IF "YES", authorization granted by	(N)I	DEP Official)	(Date)
I certify that this well was sealed in accordanged to the sea of t	nce with N.J.A.C.		12-9-04
Performing Work (Frint or Type) Name of NJ Licensed Well Driller	9 Seg	Address	Mailing Date
	Signature of NJLi	censed Well Driller Performing Work	Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

AIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT # 23-72907 of well sealed
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER L.E. Car	penter
ADDRESS 1301 E 9th	St. Cleveland, OH 44114
WELL LOCATION 170 No M	ain St. Wharton Morris Cty
Street & No., Towns	
<u>WPA-9</u>	<u>1,30</u> <u>301,703</u>
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT	Monitor
REASON FOR ABANDONMENT: No	longer needed
WAS A NEW WELL DRILLED? TYES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL 16)	Cross-section Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.
DIAMETER	Ross ST.
CASING LENGTH SCREEN LENGTH [0]	
NUMBER OF CASINGS	125
	1 🖯 1 😅 1'
naterial used to decommission well:	
Gallons of Water	400
Lbs. of Cement	
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
Lbs. of Sand/Gravel (none if well is contaminated)	NI STATE PLACE COORDINATE IN US SURVEY FEET
(notic it wen is contaminater)	NORTHING: BASTING:
FORMATION: Consolidated	OR
Unconsolidated	LATITUDE: LONGITUDE; "
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accepted	main in place, but ungrouted liner pipes or any other obstructions must ed method.
WAS CASING LEFT IN PLACE? TYPES D	INO CASING MATERIAL:
WERE OTHER OBSTRUCTIONS LEFT IN WE	ILL? TYES ANO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NIDEP Official) (Date)
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEP official? TYES
IF "YES", authorization granted by	(NIDEP Official) (Date)
I certify that this well was sealed in accordan	
Jeff Seagreaves	Bound Brook, NJ 12-9-09
Performing Work (Print of Type)	Address Mailing Date
Vame of NJ Licensed Well Driller	Signature of Ny Licensed Well Driller Performing Work Registration #
•	Statistic of (A) Ficefized Mett Dimet Lettoliming Mote voltage voltagement #
COPIES: White - Water Allocation	n Yellow - Owner Pink - Health Dept. Goldenrod - Driller

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

AIL TO: Bureau of Water Allocation		WELL	PERMIT #
PO Box 426		DATE WELL SEALED	of well sealed 12 - 9 - 0 4
Trenton, NJ 08625-0426		DATE WELL SEALED	
PROPERTY OWNER L.E. Carp		man A	
ADDRESS 1301 E 9th .	St Cleu	reland OH 45	4114
WELL LOCATION 170 No Ma Street & No., Town	in St U	Wharton Mos	rris Cty
A Of O		a .	0-1 7-0
Well No.	<u></u>	30	301, 703 Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Monito	+	
REASON FOR ABANDONMENT: No	longer !	needed	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF NEW	A CANADA CAN
TOTAL DEPTH OF WELL 17)	Cross-section	Draw a sketch showing distance	and relations of well site to
DIAMETER 2"	of scaled well	nearest roads, buildings, etc.	ST.
CASING LENGTH 77	1 11	K033	<u> </u>
SCREEN LENGTH 101	1 11		1
NUMBER OF CASINGS		. []	150
ATERIAL USED TO DECOMMISSION WELL:		350	
Gallons of Water		330	6 >
Lbs. of Cement	1		
Lbs. of Bentonite		AS-BUILT WELL LOCAT (NAD 83 HORIZONTAL DA	
Lbs. of Sand/Gravel	N	I STATE PLACE COORDINATE IN U	S SURVEY FEET
(none if well is contaminated)			
FORMATION: Consolidated	NOR	THING: EASTIN	W;
Unconsolidated	LATTTUDE:	LONGITU	IDE:"
To permit adequate grouting, the casing should re	main in place, but	ungrouted liner pipes or any other	r obstructions must
be removed. Pressure grouing is the only accept		^ ^ -	
		D/10/	
WAS CASING LEFT IN PLACE? YES [□no cas	ING MATBRIAL:	
WERE OTHER OBSTRUCTIONS LEFT IN WI	ELL? DYES 🗘	NO WHAT WERE THE OBST	RUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NITT	DEP Official)	(Date)
Was an alternative decommissioning method use			1 1
IF "YES", authorization granted by	AVI	DEP Official)	ON(Date)
I certify that this well was sealed in accordan			(Daw)
Jeff Seagteaves	Bou		12-9-07
Performing Work (Print or Type)		Address	Mailing Date
Tame of NJ Licensed Well Driller	4/14	June 1	
	Signature of NJ Lie	Ensed Well Driller Performing W	ork Registration #

New Jersey Department of Environmental Protection Water Supply Blement - Bureau of Water Allocation

AIL TO: Bureau of Water Allocation	W	ELL PERMIT # 25 - 42400 of well sealed
PO Box 426	DATE MELL OF ALED	12-9-04
Trenton, NJ 08625-0426	DATE WELL SEALED	
	penter	
ADDRESS 1301 E 9th S	of Cleveland, OH	44114
WELL LOCATION 170 No Ma		Morris Gty
Street & No., Towns		2 1 707
WPA-7		301, 103
Well No.		BIOCK 140.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor	
REASON FOR ABANDONMENT: No	longer needed	
WAS A NEW WELL DRILLED? YES		VEW WELL
(1)	Cross-section Draw a sketch showing dist	ance and relations of well site to
TOTAL DEPTH OF WELL DIAMETER 20	of sealed well nearest roads, buildings, etc	
CASING LENGTH	TI ROSS	ST.
SCREEN LENGTH 101	7 1 4	^
NUMBER OF CASINGS		709
LATERIAL USED TO DECOMMISSION WELL:		
Gallons of Water	300	
14 Lbs. of Cement		
Lbs. of Bentonite	AS-BUELT WELL LO (NAD 83 HORIZONTA	
Lbs. of Sand/Gravel	nj state place coordinate	
(none if well is contaminated)	NORTHING: BA	STING:
FORMATION: Consolidated Unconsolidated	OR	GITUDE:
To permit adequate grouting, the casing should re- be removed. Pressure grouting is the only accepte	nain in place, but ungrouted liner pipes or any of method.	other obstructions must
	0.//	e _
WAS CASING LEFT IN PLACE? YES [
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES INO WHAT WERE THE O	BSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	ON _ (NJDEP Official)	(Date)
Was an alternative decommissioning method used		
IF "YES", authorization granted by		_ON
Learning that this well was sealed in accordan	(NIDEP Official)	(Date)
Jeff Seagreaves	Bound Brook, N	/丁 <u>/2-9-0</u> 7
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Secretary	Mailing Date
	ignature of M Licensed Well Driller Performing	ng Work Registration #
•		

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

All. TO: Bureau of Water Allocation	WELL PERMIT # 25-72 37
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER L.E. Carp	
ADDRESS 1301 E 9th 5.	t. Cleveland OH 44114
WELL LOCATION 170 No Ma Street & No., Townshi	in St Wharton Morris Cty
WP-A4	1,30 <u>301,703</u>
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor
REASON FOR ABANDONMENT: No	onger needed
WAS A NEW WELL DRILLED? [] YES	
	Cross-section of scaled well The property of the property of
SCREEN LENGTH NUMBER OF CASINGS	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
ATERIAL USED TO DECOMMISSION WELL: Gailons of Water Lbs. of Cement	295
Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: EASTING:
FORMATION: Consolidated Unconsolidated	OR LATITUDE: ' LONGITUDE: "
To permit adequate grouting, the casing should rembe removed. Pressure grouting is the only accepted	method.
WAS CASING LEFT IN PLACE? YES ON	O CASING MATERIAL:
WERE OTHER OBSTRUCTIONS LEFT IN WELL	L? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	ON
Was an alternative decommissioning method used a	(NIDEP Official) (Date) und/or approval to decommission granted by a DEP official? TYES NO
IF "YBS", authorization granted by	(NIDEP Official) ON(Date)
I certify that this well was sealed in accordance Jett Seagrea Ves	, }=:
Performing Work (Print or Type) ame of NJ Licensed Well Driller	Address J. Mailing Date 5 16 77
	gnature of NJ Licensed Well Driller Performing Work Registration #

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Blement - Bureau of Water Allocation

		WELL PERMIT #	25-4237
AIL TO: Bureau of Water Allocation		METT LEUMII A	of well sealed
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALED 12 - 9	7-04
		DATE WELL SPACED TALL	1.2 Aug. also was 400
PROPERTY OWNER L.E. Carpe	enter	1 1 - 11 111 11	
ADDRESS 1301 E 9th S	+ Clev	reland, 0H 7711	4
WELL LOCATION 170 No MA	ain St	Wharton Morr	is Cty
Street & No., Townshi	ip, County		
<u>ωρ- A3</u>	1,3	0 301	103
Well No.	L	ot No. Bloc	k No.
USE OF WELL PRIOR TO ABANDONMENT:	Monito	-	
1/ /	1		
REASON FOR ABANDONMENT: //o /d	onger	needed	
		PERMIT # OF NEW WELL	
WAS A NEW WELL DRILLED? YES X			ions of well size to
	Cross-section of scaled well	Draw a sketch showing distance and relatingerest roads, buildings, etc.	IONS OF MCH SIRE (O
DIAMETER	OI SOLICO WOLL	ROSS ST.	
CASING LENGTH		No 3	
SCREEN LENGTH	3	150	•
NUMBER OF CASINGS	3	8	
TATERIAL USED TO DECOMMISSION WELL:	3	X	
		3 275	
Gallons of Water Lbs. of Cement		273	
Lbs. of Bentonite		AS-BUILT WELL LOCATION	♠N
Lbs, of Sand/Gravel	3.7	(NAD 83 HORIZONTAL DATUM) I STATE PLACE COORDINATE IN US SURVEY	, , , , , , , , , , , , , , , , , , ,
(none if well is contaminated)	155		
	NOR'	THING: EASTING:	
FORMATION: Consolidated Unconsolidated	LATITUDE:	OR LONGITUDE:	
To permit adequate grouting, the casing should rem		ungrouted liner pipes of any other obstruction	ons must
be removed. Pressure grouting is the only accepted	i imeurod.	DIC	
WAS CASING LEFT IN PLACE? YES DI		ING MATERIAL:	
WERE OTHER OBSTRUCTIONS LEFT IN WELL	L? DYES	NO WHAT WERE THE OBSTRUCTION	1 S:
IF "YES", AUTHORIZATION GRANTED BY	Oltr	DEP Official) (Da	te)
Was an alternative decommissioning method used a	and/or approval to	o decommission granted by a DEP official?	
IF "YES", authorization granted by		OEP Official)	(Date)
I certify that this well was sealed in accordance			(Julius)
Jeff Seagreaves	Rat	und Brook. NJ	12-7-04
Performing Work (Print of Type)	-/ /	Address	Mailing Date
Name of NJ Licensed Well Driller	y Jeg	van	J1699/
Si	gnature of NJ Lic	censed Well Driller Performing Work	Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

		' YWELL DEDA	AIT # <u>25-42.34</u>
IAIL TO: Bureau of Water Allocation			of well sealed
PO Box 426 Trenton, NJ 08625-0426	D.	TE WELL SEALED 12-	9-04
			11 Up pp pp 99
PROPERTY OWNER L.E. Catp		1 / 011	777. 1311
ADDRESS 1301 E 94h 3	St Cleve	land OH	74114
WELL LOCATION 170 No Ma		atton Morr	is City
Street & No., Towns	nip, County		
$\times \omega P - A2$	1.30	30	
Well No.	Lot No.	•	Bleck No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor		
REASON FOR ABANDONMENT: No 16	onget need	led	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF NEW WEI	Y.
· · ·		a sketch showing distance and	
TOTAL DEPTH OF WELL 15		a sketch showing assemble and the roads, buildings, etc.	to find of the state of the sta
DIAMETER 21		ROSS ST.	
CASING LENGTH SCREEN LENGTH		A	-
NUMBER OF CASINGS	F . 5		
	Z - Z	600	•
IATERIAL USED TO DECOMMISSION WELL:			
Gallons of Water	4 - 0		
Lbs. of Cement	H <	<u> </u>	
Lbs. of Bentonite	•	AS-BUILT WELL LOCATION	♠N
Lbs. of Sand/Gravel	ni state	(NAD 83 HORIZONTAL DATUM) PLACE COORDINATE IN US SUR	
(none if well is contaminated)	•	•	
FORMATION: Consolidated	NORTHING:	EASTING:	
Vinconsolidated	LATITUDE:	LONGITUDE:	
To permit adequate grouting, the casing should re-		ed liner pipes or any other obstr	ructions must
be removed. Pressure grouting is the only accepte	d method.	a t .	
WAS CASING LEFT IN PLACE? YES	NO CASING MA	ATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	L7 DYES NO W	HAT WERE THE OBSTRUCT	TIONS:
IF "YES", AUTHORIZATION GRANTED BY		ON	
	(NJDEP Off	cial)	(Date)
Was an alternative decommissioning method used	and/or approval to decom	unission granted by a DEP office	ial? TYES ANO
IF "YES", authorization granted by		ON	O 43
I certify that this well was sealed in accordance	(NJDEP Off e with N.LA.C. 7:9D-1		(Date)
Jeff Seagreaves	Bound	Brook. NJ	12-9-04
Performing Work (Print of Type)		dáress	Mailing Date
Jame of NI Licensed Well Driller	Ylecrea		
S	ignature of NJL icensed V	Vell Driller Performing Work	Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation		WELL PERM	
PO Box 426			of well sealed
Trenton, NJ 08625-0426	<u>-</u>	DATE WELL SEALED 12 -	1-04
PROPERTY OWNER L.E. Car	penter		
	f	reland, 04 4411	4
WELL LOCATION 170 No M	ain St	Whatton Morr	
Street & No., Town			
<u>wp-Al</u>	1,3	30	1,703
Well No.		Lot No.	lock No.
USE OF WELL PRIOR TO ABANDONMENT.	Monit	tor .	
REASON FOR ABANDONMENT: No	onger 1	reeded	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL 13 ^V	Cross-section	Draw a sketch showing distance and re	lations of well site to
DIAMETER 2"	of scaled well	nearest roads, buildings, etc.	
CASING LENGTH		ROSS ST.	riin este
SCREEN LENGTH 101	14	. 5	/
NUMBER OF CASINGS		' \(\) 3.5 \(\)	
MATERIAL USED TO DECOMMISSION WELL:	l H		•
n manage state to becommission wells,	1 7		
Gallons of Water	l E	273	
Lbs. of Cement	<u> </u>		
Lbs. of Bentonite Lbs. of Sand/Gravel	İ	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	♠N
(none if well is contaminated)	N	I STATE PLACE COORDINATE IN US SURVI	BY FEET
(NOME II WON 19 COMMINIMATED)	NOR	THING: EASTING:	
FORMATION: Consolidated		OR	
Unconsolidated	LATITUDE:	LONGITUDE:	'
To permit adequate grouting, the easing should re-	main in place, but	ungrouted liner pipes or any other obstruc	tions must
be removed. Pressure grouting is the only accepte	ed method.		
WAS CASING LEFT IN PLACE? YES	INO CAR	NG MATERIAL: PIC	
· /	_		
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? WYES 74	NO WHAT WERE THE OBSTRUCTION	ONS:
IF "YES", AUTHORIZATION GRANTED BY_	ATTO	EP Official) (I	Date)
Was an alternative decommissioning method used	and/or approval to	o decommission granted by a DEP official	
IF "YES", authorization granted by		ON	
I certify that this well was scaled in accordance	الم) , ي.ك.ك. with N. J. A. C.	EP Official) 7:9Dp3 et_seq. /	(Date)
Jeff Seagreaves	- A Bou	and Brook, NJ	12-9-04
Performing Work (Print or Type) Name of NJ Licensed Woll Driller	(/ Der	Address	Mailing Date
l " '	ignature of NJ Lie	ensed Well Driller Performing Work	Registration #
COD/FO. 145 141 141 141 141 141 141 141 141 141			

SUMMII DRILLING

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERM	
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12	of well sealed $-9-04$
PROPERTY OWNER L.E. Carp		
	- Cleveland, OH 44114	1
WELL LOCATION / / / / / / / / / / / Street & No., Towns	ain St Wharton	Morris Ct
WPA -6		1,703
Well No.	Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT	Monitor	
REASON FOR ABANDONMENT: No	longer needed	
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL	L
TOTAL DEPTH OF WELL 13'	Cross-section Draw a sketch showing distance and re	elations of well site to
DIAMETER 2"	of sealed well nearest roads, buildings, etc.	,
CASING LENGTH 3'	Ross ST.	
SCREEN LENGTH NUMBER OF CASINGS	500	
NUMBER OF CASINGS		
MATERIAL USED TO DECOMMISSION WELL:	H W	
Gallons of Water		
Lbs. of Cement	200	•
Lbs. of Bentonite	AS-BUILT WELL LOCATION	♠N
Lbs. of Sand/Gravel	(NAD 83 HORIZONTAL DATUM) NI STATB PLACE COORDINATE IN US SURV	
(none if well is contaminated)		
FORMATION: Consolidated	NORTHING: EASTING:	
Unconsolidated	LATTTUDE: ' " LONGITUDE:	
To permit adequate grouting, the casing should rea be removed. Pressure grouting is the only accepte	nain in place, but ungrouted liner pipes or any other obstrued method.	ctions must
	0.10	
WAS CASING LEFT IN PLACE? YES		
WERE OTHER OBSTRUCTIONS LEFT IN WEI	LL? Dyes Xno what were the obstructi	ONS:
IF "YES", AUTHORIZATION GRANTED BY	ON	
Was an alternative decommissioning method used	(NJDEP Official) (and/or approval to decommission granted by a DEP official	Date)
IF "YBS", authorization granted by	ON	
I certify that this well was sealed in accordance	(NJDEP Official)	(Date)
Jeff Scagreaves	Bound Brook, NJ	12-9-04
Performing Work (Print or Type)	Address	Mailing Date
Name of NJ Licensed Well Driller	y Alguny	316991
·	gnature of NJ Licensed Well Driller Performing Work	Registration#
•		

New Jersey Department of Environmental Protection Water Supply Element - Bures of Water Alexation

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT # 25-3413
Trenton, NJ 08625-0426	of well made.
PROPERTY OWNER LE CONC	DATE WELL SEALED 12-9-04
ADDRESS 301 F 9+h	enter
	St Cleveland OH 44114
WELL LOCATION // NO /Y	MIN AL II Maritain no
Street & No., Tow	inship, County County
MWIYI	\mathcal{A}
Well No.	Lot No.
USE OF WELL PRIOR TO ABANDONMENT:	Mon itor Block No.
REASON FOR ABANDONMENT: NO	onger needed
WAS A NEW WELL DRILLED? TYES	
TOTAL DEPTH OF WELL /7	Cross-section Draw a sketch showing discovery
DIAMBTER	meatest roads, outlaings, etc.
CASING LENGTH	Ross ST.
SCREEN LENGTH NUMBER OF CASINGS	1 1
TOMBER OF CASINGS	
TERIAL USED TO DECOMMISSION WELL:	1 3 800
Gallons of Water	
Lbs. of Coment	5 800
Lbs. of Bentonite	AS-BUILT WELL LOCATION
Lbs. of Sand/Gravel	(NAD 83 HORIZONTAL DATUM)
(none if well is contaminated)	NI STATE PLACE COORDINATE IN US SURVEY FEET
	NORTHING: EASTING:
FORMATION: Consolidated	OR LATITUDE: ' LONGITUDE; '"
Unconsolidated	
To permit adequate grouting, the casing should rea be removed. Pressure grouting is the only accepte	nain in place, but ungrouted liner pipes or any other obstructions must d method.
·	
WAS CASING LEFT IN PLACE? YES 🛛	NO CASING MATERIAL:
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NJDEP Official) (Date)
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEP official? TYES ANO
IF "YES", authorization granted by	ONONODate)
·	
I certify that this well was sealed in accordance	Mailing Date
forming Work (Print or Type)	Jenemus Jugal
Name of NJ Licensed Well Driller	Signature of NJ Leensed Well Driller Performing Work Registration #
	Goldonná - Dáller

SUMMIT DRILLING

PAUL 3// bb

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT #25 -341 of well seale	36
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04	
		
PROPERTY OWNER LE CORP	enter	
ADDRESS 1301 E 9th 1	St. Cleveland OH 44114	A
WELL LOCATION 170 No M	ain St Wharton Morris Cty	
Street & No., Towns	ship, County	
MW14S	Lot No. Block No.	
Well No.	Mon Hor	
USE OF WELL PRIOR TO ABANDONMENT:		
REASON FOR ABANDONMENT: //O	longer needed	-
WAS A NEW WELL DRILLED? TYPES	NO PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL	Cross-section Draw a sketch showing distance and relations of well site of sealed well nearest roads, buildings, etc.	to
DIAMETER 4/2 CASING LENGTH 3	Ross ST.	
SCREEN LENGTH TO		1
NUMBER OF CASINGS	600	
MATERIAL USED TO DECOMMISSION WELL:		l
Gallons of Water	500	
Lbs. of Coment	A St.	
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	₽N
Lbs. of Sand/Gravel (none if well is contaminated)	NI STATE PLACE COORDINATE IN US SURVEY FEET	
•	NORTHING: EASTING:	
FORMATION: Consolidated Unconsolidated	LATTTUDE: OR LONGITUDE:	_"
	main in place, but ungrouted liner pipes or any other obstructions must	
be removed. Pressure grouting is the only accepte		
WAS CASING LEFT IN PLACE? XYES C	INO CASING MATERIAL Stainless Steel	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? DYES NO WHAT WERE THE OBSTRUCTIONS:	<u>: </u>
IF "YES", AUTHORIZATION GRANTED BY_	(NIDEP Official) (Date)	
Was an alternative decommissioning method used	i and/or approval to decommission granted by a DEP official? TYES	5
IF "YES", authorization granted by	ON	,
I certify that this well was sealed in accordan	(NJDEP Official) (Date) see with N.J.A.C. 7:9D-3 et seg.	
JEFF SENGLEDVES	Bound Brook NJ 129-04	<u> </u>
Performing Work (Print or Type)	Address — Mailing D	ate
Vame of NJ Licensed Well Driller	Signature of Nillicensed Well Driller Performing Work Registration	
•		

DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Buten - Willer Afrocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT # 25 - 3340
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER LE COY	penter
ADDRESS 1301 E 9th 5	+ Cleveland OH 44114
WELL LOCATION 170 No., Tow	ain St Wharton Morris Cty
M IA/ 1/2 S	onsnip, County
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT	monitor
REASON FOR ABANDONMENT: 10	longer needed
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL
be removed. Pressure grouting is the only acco	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR LATITUDE: LATITUDE: Termain in place, but ungrouted liner pipes or any other obstructions must
	BLL? DYES ZNO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	ON(NIDEP Official) (Date)
Was an alternative decommissioning method us	ed and/or approval to decommission granted by a DEP official? YES NO
IF "YES", authorization granted by	(NIDEP Official) ON(Date)
I certify that this well was sealed in accordance of NJ Licensed Well Driller	Address Signature of NJ Incensed Well Driller Performing Work Acc. 7:9D-3 et seq. 12-9-04 Mailing Date J 1099 Registration #

COPIES:

White - Water Aliocation

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

WELL ABANDONMENT REPORT

MAIL TO: Bureau of Water Altocation PO Box 426		WELL PERM	IT# <u>25-5726</u> of well sealed
Trenton, NJ 08625-0426		DATE WELL SEALED 12-6	
PROPERTY OWNER LE Caro	senters		
ADDRESS 1301 E 9th 5	t Cleve	Lland OH 4411	4
WELL LOCATION 170 No., Town	bin Staship, County	Wharton Marri	s Cty
EFR 28 Well No.		2 Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT.	Monito	sr	
REASON FOR ABANDONMENT: NO.	longer r	reeded	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL Gallons of Water Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated) FORMATION: Consolidated Unconsolidated Unconsolidated To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accept	NORTH LATTITUDE:	Draw a sketch showing distance and re nearest roads, buildings, etc. Ross As-Built Well Location (NAD 83 HORIZONTAL DATUM) I STATE PLACE COORDINATE IN US SURV ITHING: BASTING: OR LONGITUDE: ungrouted liner pipes or any other obstru	S F.
WAS CASING LEFT IN PLACE? YES [NG MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ILL? DYES XI	NO WHAT WERE THE OBSTRUCTI	ONS:
IF "YES", AUTHORIZATION GRANTED BY_	OIT)	EP Official) ON	
Was an alternative decommissioning method used			Date) 17 DYES XNO
IF "YES", authorization granted by		ON	
I certify that this well was sealed in accordan	ce with N.J.A.C.	EP Official) 7:9D-3 et seq. DOC Brook AJ	(Date) 12-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Signature of NJ Lid	Address Classical Well Driller Performing Work	Mailing Date 10991 Registration #
	an esa nastranea <u>a e é sá escid</u> i	Table 21 April 21 April 22 Apr	Commonday 1

Yellow - Owner

Pink - Health Dept.

Goldenrod - Driller

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT # 25-572 63		
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04		
PROPERTY OWNER LE COYP			
ADDRESS 1301 E 9th 5	t Cleveland OH 44114		
WELL LOCATION 170 No., Tow	hin St Wharton Marris Cty		
EFR 27 Well No.	Lot No. Block No.		
USE OF WELL PRIOR TO ABANDONMENT	Monitorina		
REASON FOR ABANDONMENT: NO	longer needed		
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL		
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well nearest roads, buildings, etc.		
MATERIAL USED TO DECOMMISSION WELL Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET		
formation: (none if well is contaminated) Consolidated Unconsolidated	NORTHING: EASTING: OR LAITTUDE: ' LONGITUDE: ' "		
To permit adequate grouting, the casing should r be removed. Pressure grouting is the only accep	emain in place, but ungrouted liner pipes or any other obstructions must ted method.		
WAS CASING LEFT IN PLACE? X YES	DNO CASING MATERIAL: PVC		
WERE OTHER OBSTRUCTIONS LEFT IN W	ELL? DYES NO WHAT WERE THE OBSTRUCTIONS:		
IF "YES", AUTHORIZATION GRANTED BY	(NJDEP Official) (Date)		
	ed and/or approval to decommission granted by a DEP official?		
IF "YES", authorization granted by	(NJDEP Official) (Date)		
I certify that this well was sealed in accordant to the SERGET VES Performing Work (Print or Type)	• • • • • • • • • • • • • • • • • • • •		
Name of NJ Licensed Well Driller	Signature of NJ Licensed Well Driller Performing Work Registration #		

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426		*	WELL PERMIT #	25-51282 of well sealed
Trenton, NJ 08625-0426		DATE WELL SEAL	ED 12-9	-04
PROPERTY OWNER LE COPPO	enter	no us su		
ADDRESS 1301 E 9th 51	. Cleve	eland OH	44114	
WELL LOCATION 170 No., Town	Jain Stuship, County	Wharton	Morris	Cty
EFR 26 Well No.]	Lot No.	Block) <u> </u>
USE OF WELL PRIOR TO ABANDONMENT:	Mon4	or .		
REASON FOR ABANDONMENT:	longer	needed		
WAS A NEW WELL DRILLED? YES	NO	PERMIT # O	F NEW WELL	
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: 14 Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated) FORMATION: Consolidated Unconsolidated To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accepted.	NOR' LATITUDE:	OR OR	LOCATION TAL DATUM) TB IN US SURVEY FO	ST
WAS CASING LEFT IN PLACE? YES		ING MATERIAL: P	VC	
WERE OTHER OBSTRUCTIONS LEFT IN WELL? DYES NO WHAT WERE THE OBSTRUCTIONS:				
IF "YES", AUTHORIZATION GRANTED BY_	(NID)	EP Official)	N(Date)	
Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? UYES NO				
IF "YES", authorization granted by	(NID	EP Official)	ON	(Date)
I certify that this well was sealed in accordan	ce with N.J.A.C.	· · · · · · · · · · · · · · · · · · ·	. Aπ 1	2-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	UA	Address Address Colored Well Driller Perform	ning Work	Mailing Date Mailing Date Registration #

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DWR-020 7/02

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White - Water Allocation

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

WELL ABANDONMENT REPORT

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT # 25-512 1 of well sealed		
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04		
PROPERTY OWNER LE COMP	nter		
ADDRESS 130 E 9th 5	+ Cleveland OH 44114		
WELL LOCATION / Town Street & No., Town	ain St. Wharton Morris Cty nship, County		
EFR 24			
Well No.	Lot No. Block No.		
USE OF WELL PRIOR TO ABANDONMENT	Monitor		
REASON FOR ABANDONMENT: 10	longer needed		
WAS A NEW WELL DRILLED? YES			
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc. Ross ST.		
MATERIAL USED TO DECOMMISSION WELL /	AS-BUILT WELL LOCATION ON A PRINCIPAL DATING		
Lbs. of Sand/Gravel (none if well is contaminated)	NI STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: EASTING:		
FORMATION: Consolidated Unconsolidated	OR LATITUDE: ' LONGITUDE: "		
To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.			
WAS CASING LEFT IN PLACE? YES	□NO CASING MATERIAL: PVC		
WERE OTHER OBSTRUCTIONS LEFT IN WELL? DYES ON WHAT WERE THE OBSTRUCTIONS:			
IF "YES", AUTHORIZATION GRANTED BY			
(NIDEP Official) (Date) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? TYES NO			
IF "YES", authorization granted by	ON		
I certify that this well was sealed in accordang JEFF SEPGREAVES	Bound Brook NJ 12-9-04		
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Mailing Date		
A	Signature of NJ Licensed Well Driller Performing Work Registration #		

Yellow - Owner

Pink - Health Dept.

Goldenrod - Driller

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

WELL ABANDONMENT REPORT

MAIL TO: Bureau of Water Allocation	WELL PERMIT #25-512-80
PO Box 426 Trenton, NJ 08625-0426	of well sealed DATE WELL SEALED 12-9-64
PROPERTY OWNER LE CORD	Oter:
ADDRESS_1301 E 9th S	St Cleveland OH 44114
WELL LOCATION 170 100 M	Pain St Wharton Morris Cty
Street & No., Town	ship. County
EFB 24	801
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Honitor
REASON FOR ABANDONMENT: 10	longer needed
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL	Cross-section of scaled well Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.
DIAMETER SING LENGTH	
SCREEN LENGTH	Ross St.
NUMBER OF CASINGS	H 4 7
MATERIAL USED TO DECOMMISSION WELL:	
1/1	
Gallons of Water Lbs. of Coment	8
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HOPIZONTAL DATIM)
Lbs. of Sand/Gravel	(NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET
(none if well is contaminated)	NORTHING: BASTING:
FORMATION: Consolidated	OR
Unconsolidated	LATITUDE: LONGITUDE: "
To permit adequate grouting, the casing should reall be removed. Pressure grouting is the only accepted	main in place, but ungrouted liner pipes or any other obstructions must ed method.
WAS CASING LEFT IN PLACE? XI YES	NO CASING MATERIAL: PVC
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	ON
Was an alternative decommissioning method used	(NJDEP Official) (Date) and/or approval to decommission granted by a DEP official? YES NO
IF "YES", authorization granted by	ON
I comify that this wall was souled in accordance	(NIDEP Official) (Date)
I certify that this well was sealed in accordance SEE SEAGLE AVES	Bound Brook 1)T 12-9-04
Performing Work (Print or Type)	Address Mailing Date
Name of NJ Licensed Well Driller	1/ Heglen 1/2991
S	ignature of NJ Licensed Well Driller Performing Work Registration #
GOPIES: White - Water Allocation	Yellow - Owner Pink - Health Dept. Göldenrod - Driller

Pink - Health Dept.

Goldenrod - Driller

SUMMIT DRILLING

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DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT # 25-57278		
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-64		
PROPERTY OWNER LE Cart	renter		
ADDRESS 1301 E 9th .	St Cleveland OH 44114		
WELL LOCATION 10 No. Town	Jain St Wharton Marris Cty ship, County		
EFR23 Well No.	Lot No. Block No.		
USE OF WELL PRIOR TO ABANDONMENT:	Monitoring		
REASON FOR ABANDONMENT: 10	longer needed		
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL		
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL:	Cross-section of sealed well Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.		
Gallons of Water 188 Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY PEET		
FORMATION: Consolidated Unconsolidated	NORTHING: EASTING: OR LATITUDE: ' LONGITUDE: ' "		
To permit adequate grouning, the casing should re- be removed. Pressure grouting is the only accepted	main in place, but ungrouted liner pipes or any other obstructions must ed method.		
WAS CASING LEFT IN PLACE? YES [INO CASING MATERIAL: PVC		
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES INO WHAT WERE THE OBSTRUCTIONS:		
IF "YES", AUTHORIZATION GRANTED BY_	ON		
(NIDEP Official) (Date) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?			
IF "YES", authorization granted by	ON		
I certify that this well was sealed in accordance of NJ Licensed Well Driller	(NJDEP Official) ce with N.J.A.C. 7:9D-3 et seq. Address Address ignature of NI Licensed Well Driller Performing Work Registration #		

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation		WELL PE	RMIT # 25 - 5727
PO Box 426 Trenton, NJ 08625-0426	•	DATE WELL SEALED 12	of well sealed
PROPERTY OWNER LE COL	meter		
ADDRESS 1301 E 9th		a relation Oil	(1/11/1
122 12 0		eveland OH	74114
WELL LOCATION / O / O / Street & No., Town	ship, County	Wharton Morr	ris Uty
EFR 22	<u> </u>	<i></i>	801
Well No.	m- 1	Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:	TIDUH	or	
REASON FOR ABANDONMENT: //6	longer	neided	``
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF NEW WE	Ц
TOTAL DEPTH OF WELL/7	Cross-section	Draw a sketch showing distance and	relations of well site to
DIAMETER 410	of sealed well	nearest roads, buildings, etc.	CT
CASING LENGTH		Koss	<u> </u>
SCREEN LENGTH	1 11	. 5	140
NUMBER OF CASINGS		<u> </u>	190
MATERIAL USED TO DECOMMISSION WELL:			1
141		200)
Gallons of Water	∀		
Los. of Comen			
Lbs. of Bentonite Lbs. of Sand/Gravel		AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM	<u> </u>
(none if well is contaminated)	N	J STATE PLACE COORDINATE IN US SUI	EVEY FEET
(liotio II won is contaminated)	NOR'	THING: EASTING: _	
FORMATION: Consolidated		OR	
Unconsolidated		LONGITUDE:	
To permit adequate grouting, the casing should re- be removed. Pressure grouting is the only accepte	main in place, but and method.	ungrouted liner pipes or any other obst	ructions must
WAS CASING LEFT IN PLACE? YES	INO CASI	NG MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	. 1	•	
•	LLI LIES EN	NO WHAT WERE THE UBSTRUC	IIONS:
IF "YES", AUTHORIZATION GRANTED BY	(NID)	EP Official)	(Date)
Was an alternative decommissioning method used			ial? DYES ANO
IF "YES", authorization granted by		on	
I certify that this well was sealed in accordance	(NJD) ce with N.J.A.C.	EP Official) 7:9D-3 et seg.	(Date)
JEFF SEAGREAVES	Bou	ind Brook NIT	12-9-04
Performing Work (Print or Type)	7)7	Address	Mailing Date
Name of NJ Licensed Well Driller	1/12	rem	116921
S	ignature of NJ Life	ensed Well Driller Performing Work	Registration #
COPIES: White - Water Allocation	Yellow - O	wner Pink - Health Dept.	Goldenrod - Driller

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New Jersey Department of Environmental Protection
Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT # 25-572(5) of well sealed		
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04		
PROPERTY OWNER LE COMP	enter		
ADDRESS 1301 E 9th	St Cleveland Olt 44114		
WELL LOCATION 170 Nb 1	nain St Wharton Morris Cty		
Street & No., Town	ship, County		
EFR 21 Well No.	Lot No. Block No.		
USE OF WELL PRIOR TO ABANDONMENT:	Monitor		
REASON FOR ABANDONMENT: NO	longer needed		
WAS A NEW WELL DRILLED? YES			
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH	Cross-section of sealed well nearest roads, buildings, etc. ROSS ST.		
MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement	140		
Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET NORTHING:		
FORMATION: Consolidated Unconsolidated	OR LATITUDE: LONGITUDE:"		
To permit adequate grouting, the casing should report be removed. Pressure grouting is the only accepted	main in place, but ungrouted liner pipes or any other obstructions must ed method.		
WAS CASING LEFT IN PLACE? YES	NO CASING MATERIAL: PVC		
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES ANO WHAT WERE THE OBSTRUCTIONS:		
IF "YES", AUTHORIZATION GRANTED BY_			
Was an alternative decommissioning method used	(NJDEP Official) (Date) and/or approval to decommission granted by a DEP official?		
IF "YES", authorization granted by	ON		
I certify that this well was sealed in accordance JEFE SERGREDVES	(NIDEP Official) (Date) ce with N.J.A.C. 7:9D-3 et seq. BOUND Brook NJ 12-9-04		
Performing Work (Print or Type) Jame of NJ Licensed Well Driller	Address Mailing Date Mailing Date Granture of NI Licensed Well Driller Performing Work Registration #		
	Service Andrews Andrews Andrews Wellingshott &		

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT #25-57269
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER LE COMP	enter
ADDRESS 1301 E 9th 5+	Cleveland OH 44114
WELL LOCATION 170 & M. Street & No., Towns	ain St Wharton Morris Cty ship, county
EFR 20 Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor
REASON FOR ABANDONMENT: 1	onger needed
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well nearest roads, buildings, etc. (055)
MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement	900
Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET
FORMATION: Consolidated Unconsolidated	NORTHING: EASTING: OR LATITUDE: LONGITUDE: "
To permit adequate grouting, the casing should rembe removed. Pressure grouting is the only accepted	nain in place, but unprouted lines pines or any other obstructions must
WAS CASING LEFT IN PLACE? YES	NO CASING MATERIAL: PVC
WERE OTHER OBSTRUCTIONS LEFT IN WEI	L? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	
Was an alternative decommissioning method used	(NJDEP Official) (Date) and/or approval to decommission granted by a DEP official? TYES ANO
IF "YES", authorization granted by	ON
I certify that this well was sealed in accordance JEFF SEAGKEAVES Performing Week (Brist - True)	Bound Brook NT 18-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller Signature	Address Mailing Date J. (299) granure of N. Licensed Well Driller Performing Work Registration #

mar in on

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation		WE	L PERMIT #25-57265
PO Box 426 Trenton, NJ 08525-0426	.*	DATE WELL SEALED	12-9-04
PROPERTY OWNER LE COYP	enter		Side man and have stay dress you was
ADDRESS 1301 E 9th	/\ A\	eveland O	+ 44114
WELL LOCATION / Street & No., Town	<u>Jain</u> St	Wharton	Morris Cty
EER 19 Well No.		Q ot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Mont	or	
REASON FOR ABANDONMENT: NO	onger t	reded	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OP NE	W WELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water /BB	NORT	AS-BUILT WELL LOCA (NAD 83 HORIZONTAL D STATE PLACE COORDINATE IN I HING: COR COR COR COR COR COR COR CO	TION ATUM) JS SURVEY FEET NG:
be removed. Pressure growing is the only accepted	d method.		r opskatelolis liidst
WAS CASING LEFT IN PLACE? YES □	NO CASIN	NG MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WEI	LL? OYES DEN	O WHAT WERE THE OBST	RUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	OVIDE	IP Official)	(Date)
Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? TYES			
IF "YES", authorization granted by	OTIDE		ON
I certify that this well was scaled in accordance IEFF SEPGPEDVES Performing Work (Print or Type) Name of NJ Licensed Well Driller Signature of NJ Licensed Well Driller	e with N.J.A.C. 7		(Date) 1

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New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

SUMMIT DRILLING

WELL ABANDONMENT

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT #25-5/27(6		
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-64		
PROPERTY OWNER LE CAY	unter		
ADDRESS 1301 E 946	st Cleveland OH 44114		
WELL LOCATION 170 100 Street & No., Tow	Jain St Wharton Morris Ch.		
EFR18	2 801		
Well No.	Lot No. Block No.		
USE OF WELL PRIOR TO ABANDONMENT	Monitoring		
REASON FOR ABANDONMENT: NO	onger a needed		
WAS A NEW WELL DRILLED? YES	KNO PERMIT # OF NEW WELL		
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH JO	Cross-section of scaled well Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc. ROSS ST,		
MATERIAL USED TO DECOMMISSION WELL Gallons of Water Lbs. of Cement Lbs. of Bentonite			
Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: EASTING:		
FORMATION: Consolidated Unconsolidated	OR LATITUDE: LONGITUDE:		
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accept	emain in place, but ungrouted liner pipes or any other obstructions must ad method.		
WAS CASING LEFT IN PLACE? YES [INO CASING MATERIAL: PVC		
WERE OTHER OBSTRUCTIONS LEFT IN WELL? DYES DNO WHAT WERE THE OBSTRUCTIONS:			
IF "YES", AUTHORIZATION GRANTED BY_	ON		
Was an alternative decommissioning method used	(NIDEP Official) (Date) d and/or approval to decommission granted by a DEP official?		
IF "YES", authorization granted by	ON		
I certify that this well was sealed in accordant to the Series of Name of NJ Licensed Well Driller	(NJDEP Official) (Date) Ice with N.J.A.C. 7:9D-3 et seg. Address Mailing Date 116 9 9		
•	Signature of NJ Loonsed Well Driller Performing Work Registration #		
COPIES: White - Water Allocation	7 Yellow - Owner Pink - Health Dept. Goldenfod - Driller		

Pink - Health Dept.

Goldenrod - Driller

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426		WE	ELL PERMIT # 25-5727
Trenton, NJ 08625-0426		DATE WELL SEALED	12-9-04
PROPERTY OWNER LE COPPE	enter		
ADDRESS 1301 E 9th 5	it Cle	reland OH	44114
WELL LOCATION Street & No., Town	Dain St	Wharton	Morris Cty
EFRIT Well No.	· · · · · · · · · · · · · · · · · · ·	Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:	_ Monit	Or	
REASON FOR ABANDONMENT: NO.	longer	needed	
WAS A NEW WELL DRILLED? YES	NO	PERMIT # OP NE	W WELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH	Cross-section of scaled well	nearest roads, buildings, etc.	nce and relations of well site to
SCREEN LENGTH NUMBER OF CASINGS		la la	130
MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement	entratura Transport	N. 100	
Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)		AS-BUILT WELL LOC/ (NAD 83 HORIZONTAL I I STATE PLACE COORDINATE IN	DATUMO NO NO NO NO NO NO NO NO NO NO NO NO NO
FORMATION: Consolidated Unconsolidated	LATITUDE:	THING:EAST) OR'LONGI	UDE:
To permit adequate grouting, the casing should re- be removed. Pressure grouting is the only accepted	main in place, but to d method.	ungrouted liner pipes or any oth	er obstructions must
WAS CASING LEFT IN PLACE? YES	INO CASÍ	NG MATERIAL: PVC	,
WERE OTHER OBSTRUCTIONS LEFT IN WELL? DYES NO WHAT WERE THE OBSTRUCTIONS:			
IF "YES", AUTHORIZATION GRANTED BY		ON	The same of the sa
Was an alternative decommissioning method used	(NJD) and/or approval to	EP Official) decommission granted by a DE	(Date) P official? YES NO
IF "YES", authorization granted by			on
I certify that this well was sealed in accordance JEKF SERGRERVES	(NJD) e with N.J.A.C.	EP Official) 7:9D-3 et seq. ad Brook W	(Date)
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Dec	Address Neww	Mailing Date
S	ignature of NJ Lie	ensed Well Driller Performing V	Vork Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT #25 -5127
Trenton, NJ 08625-0426	DATE WELL SEALED 2-9-64
PROPERTY OWNER LE COYO	enter
ADDRESS 1301 E 9th St	- Cleveland OH 44114
WELL LOCATION 100 No., Town	in St Wharton Marris Ctu
EFRILO Well No.	Lot No. Bleck No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitoring
REASON FOR ABANDONMENT:	longer needed
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated) FORMATION: Consolidated Unconsolidated Unconsolidated To permit adequate grouting, the casing should remote the removed. Pressure grouting is the only accepted.	Cross-section of sealed well Note that the property of the pr
WAS CASING LEFT IN PLACE? YES	NO CASING MATERIAL: PVC
WERE OTHER OBSTRUCTIONS LEFT IN WEI	L? DYES AND WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	ON
Was an alternative decommissioning method used	(NJDEP Official) (Date) and/or approval to decommission granted by a DEP official? DYES ZNO
IF "YES", authorization granted by	ON
I certify that this well was sealed in accordance JEFF SERGKERVES Performing Work (Print or Type)	(NJDEP Official) (Date) e with N.J.A.C. 7:9D-3 et seg. Address Mailing Date
Name of NJ Licensed Well Driller	granter of NJ Coensed Well Driller Performing Work Registration #
COPIES White - Water Allowater	Valley Original Philadelphia

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL_TO: Bureau of Water Allocation	WELL PERMIT # 25-5127
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER LE CORP.	enter
ADDRESS 1301 E. 946	St Cleveland OH 44114
	bun St Wharton Marris Ctv
Street & No., Town	ship, County
EFR 15	<u> </u>
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT.	Monitor
REASON FOR ABANDONMENT: NO	longer needed
WAS A NEW WELL DRILLED? I YES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL/O'	Cross-section Of scaled well Of scal
DIAMETER 40	
CASING LENGTH SCREEN LENGTH	Ross St.
NUMBER OF CASINGS	H 1.51
MATERIAL USED TO DECOMMISSION WELL:	130
•	500
J4 Gallons of Water Lbs. of Cament	月
Lbs. of Cement Lbs. of Bentonite	
Lbs. of Sand/Gravel	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
(none if well is contaminated)	NI STATE PLACE COORDINATE IN US SURVEY FEET
	NORTHING: BASTING:
FORMATION: Consolidated Unconsolidated	OR LATTITUDE: LONGITUDE: "
To permit adequate grouting, the casing should ren	nain in place, but ungrouted liner pipes or any other obstructions must
be removed. Pressure grouting is the only accepte	d method.
WAS CASING LEFT IN PLACE? YES	NO CASING MATERIAL: PVC
WERE OTHER OBSTRUCTIONS LEFT IN WEI	L? DYES DINO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	ON
Was an alternative decommissioning method used	(NJDEP Official) (Date) and/or approval to decommission granted by a DEP official? YES
IF "YES", authorization granted by	ON
I centify that this well was sealed in accordance	(NJDEP Official) (Date) e with N.J.A.C. 7:9D-3 et seq.
JEFF SENGLEAVES	A Bound Brook NJ 12-9-04
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Address Mailing Date
	gnature of NJ Licensed Well Driller Performing Work Registration #
	Vediging 4

د محیالات کا فاقت

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Burean of Water Allocation			WELL PE	AMIT #25-5129
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 13-9-04		of well sealed	
PROPERTY OWNER LE COM	renter			
ADDRESS 1301 E 9th	St Clas	reland (144 HC	NU
1	ain St			-A
Street & No., Town		Wharto	10, (1) (a)	ons Cty.
EFR14	·	2	5	201
Well No.		Lot No.	· · · · · · · · · · · · · · · · · · ·	Block No.
USE OF WELL PRIOR TO ABANDONMENT	_Moor	toring		
REASON FOR ABANDONMENT: NO	longer	needed		
WAS A NEW WELL DRILLED? YES	NO	PERMI	T#OFNEWWE	SLL.
TOTAL DEPTH OF WELL DIAMETER 4/10	Cross-section of sealed well		wing distance and dings, etc.	relations of well site to
CASING LENGTH SCREEN LENGTH			ROSSS	Te
NUMBER OF CASINGS		2	•	
MATERIAL USED TO DECOMMISSION WELL		8		100
Gallons of Water		120	iD.	&
	A	3		
Lbs. of Bentonite Lbs. of Sand/Gravel		(NAD 83 HÖR	WELL LOCATION UZONTAL DATUM	♠ N
(none if well is contaminated)) STATE PLACE COOR THING:		KVEY FEET
FORMATION: Consolidated Unconsolidated	LATTIUDE:		BASTING; OR " LONGITUDE; _	
To permit adequate grouting, the casing should re			the state of the s	metions must
be removed. Pressure grouting is the only accept	ed method,	_	or any omice 4030	denous Must
WAS CASING LEFT IN PLACE? PAYES	Ino casi	NG MATERIAL:	<u>γγς </u>	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ILL? DYES	NO WHAT WERE	THE OBSTRUCT	TIONS:
IF "YES", AUTHORIZATION GRANTED BY_			ON	
Was an alternative decommissioning method used	(NJD) and/or approval to	EP Official) decommission grant	ed by a DEP offic	(Date) ial? YES NO
IF "YES", authorization granted by		,	ON	
I certify that this well was scaled in accordan	(NJD) ce with N.J.A.C.	BP Official) 7:9D-3 et seg.		(Date)
Performing Work (Print or Type)	- Bou	nd Brook	<u> UI</u>	12-9-04
ame of NJ Licensed Well Driller	Vier	Address		Mailing Date
	ignature of NJAice	ensed Well Driller Per	forming Work	Registration #
COPIES: White - Water Allocation	Yellow - O	wner Pink - H	ealth Dept.	Goldenrod - Driller

POMINT DETETTION

MUL JAN OU

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

Treaton, NI 98625-0426 Treaton, NI 98625-0426 DATE WELL SEALED 12 7 0 4 PROPERTY OWNER LECTOPERTY ADDRESS 30 E 7th 5t Cleve on the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of sealed well of the control of sealed well of the control of sealed well of the control of sealed well of the contro	MAIL TO: Bureau of Water Allocation	•		WELL PERMIT # 25	5727
ADDRESS 30 E 9th 5t Clave and 0 H 44114 WELL LOCATION 10 No. Township, County Street & No., Township, County FF 13 Well No. Lot No. Block No. USE OF WELL PRIOR TO ABANDONMENT: WAS ANEW WELL DRILLED? YES NO WAS ANEW WELL DRILLED? YES NO PERMIT & OF NEW WELL TOTAL DEPTH OF WELL JU COASING LENGTH SCREEN LENGTH JO Lls. of Sand/Gravel (none if well is contaminated) ASBULL WELL LOCATION RAJ B3 HORDONALD DATING ROAD B3 HORDONALD DATING NO STATE FLAGE COORDINATE NO SURVEY FEET NORTHING: OR CONSULIDATE NORTHING: OR ASTING LATITUDE: LATITUDE: LATITUDE: NORTHING: OR ASTING LEFT IN PLACE? ANE STRUCTIONS LEFT IN WELL? WAS CASING LEFT IN PLACE? AND STRUCTIONS LEFT IN WELL? WERE OTHER OBSTRUCTIONS LEFT IN WELL? WERE OTHER OBSTRUCTIONS LEFT IN WELL? (NDEP Official) (Date) NORTH WELL LOCATION OR ASSING LEFT IN PLACE? NORTHING: OR CONSULIDATE NORTHING: OR ASSING LEFT IN PLACE? NORTHING: ON (Date) (NDEP Official) ON (Date) LOCATION OF NEW WELL LOCATION ON (Date) (NDEP OFFIcial) ON (Date) LOCATION OF NEW WELL ON (NDEP OFFIcial) ON (Date) LOCATION OF NEW WELL ON (NDEP OFFIcial) ON (Date) LOCATION OF NEW WELL ON (NDEP OFFIcial) ON (NDEP OFFIcial) ON (NDEP OFFIcial) ON (NDEP OFFIcial) LEFT OF AGLERYES Address Mailing Date LOCATION OF NEW WELL WELL LOCATION FIRST ASSINGLED OF NEW WELL ON (NDEP OFFIcial) ON (NDEP OFFIcial) ON (NDEP OFFIcial) ON (NDEP OFFIcial) LEFT OF AGLERYES Address Mailing Date LOCATION OF NEW WELL WELL LOCATION Block No. Blo	PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALE		ell sealed
Street & No., Township, County Street & No., Township, County	PROPERTY OWNER LE COM	unter			P
Street & No., Township, County FEL 13 Well No. USE OF WELL PRIOR TO ABANDONMENT: REASON FOR ABANDONMENT: WAS ANEW WELL DRILLED? TOTAL DEPTH OF WELL JUY Cross-section of sealed well Draw a setch showing distance and relations of well site to earrest roads, buildings, etc. ASSINGLENGTH CASINGLENGTH JO Lbs. of SandGravel (none if well is conteminated) PORMATION: Consolidated Longer Machine AS-BUILT WELL LOCATION NOT STATE PLACE COORDINATE IN US SURVEY FEET NORMATION: Consolidated LATITUDE: NORMATION: Consolidated LATITUDE: OR LATITUDE: CASING MATERIAL: PVC WERE OTHER OBSTRUCTIONS LEFT IN WELL? Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? (NIDEP Official) (Date) (Date) (Date) Address	ADDRESS 301 E 9th 5	A Clev	eland OH	44114	
Well No. Lot No. Block No. USE OF WELL PRIOR TO ABANDONMENT: REASON FOR ABANDONMENT: WAS ANEW WELL DRILLED? WAS ANEW WELL DRILLED? TOTAL DEPTH OF WELL TOTAL DEPTH OF NEW WELL TOTAL DEPTH TOTAL DEPTH OF NEW WELL TOTAL DEPTH OF NEW WELL TOTAL DEPTH OF		ain St	Wharton	Morris (4
Well No. USE OF WELL PRIOR TO ABANDONMENT: REASON FOR ABANDONMENT: WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL TOTAL DEPTH OF WELL JY CASING LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: AS Los. of Cement Los. of Sand/Gravel (sone if well is contaminated) Consolidated To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only arcepted method. WAS CASING LEFT IN PLACE? WERE OTHER OBSTRUCTIONS LEFT IN WELL? Was an alternative decommissioning method used and/or approval to decommission granted by (NDEP Official)	·	emp, County	2	Shi	•
WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL Y' TOTAL DEPTH OF WELL Y' DIAMETER YES NO Draw a sketch showing distance and relations of well site to searest roads, building, etc. Cross-section of sealed well Draw a sketch showing distance and relations of well site to searest roads, building, etc. CRASING LENGTH YES CASING LENGTH YES CONSTRUCTIONS MATERIAL USED TO DECOMMISSION WELL: AS-BUILT WELL LOCATION MATERIAL USED TO DECOMMISSION WELL: ASSURE FINE MATERIAL USED TO MATERIAL ASSURCE FINE MATERIAL USED TO MATERIAL ASSURE FINE MATERIAL U	والمروب المساحة والمساحة والمس		Lot No.	Block No.	
WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL TOTAL DEPTH OF WELL JY Cross-section of sealed well of sealed well DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Galions of Water JSC. Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated) NU STATE PLACE COORDINATE IN US SURVEY FEET NORTHING:	USE OF WELL PRIOR TO ABANDONMENT:	Mor	oitor		
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated)	REASON FOR ABANDONMENT: ()	longer	needed		·
DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water JS	WAS A NEW WELL DRILLED? YES	NO	PERMIT # OF	NEW WELL	
WERE OTHER OBSTRUCTIONS LEFT IN WELL? THE OBSTRUCTIONS: IF "YES", AUTHORIZATION GRANTED BY Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? THE OBSTRUCTIONS: (NJDEP Official) (NJDEP Official) (NJDEP Official) (NJDEP Official) (Date) I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. (NJDEP Official) (Date) Performing Work (Print or Type) Address Ame of NJ Licensed Well Driller	DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated) FORMATION: Consolidated Unconsolidated To permit adequate grouting, the casing should remained	of sealed well NOR LATITUDE: nain in place, but i	AS-BUILT WELL LI (NAD 83 HORIZONTA STATE PLACE COORDINATE OR LON	OCATION AL DATUM) E IN US SURVEY FEET ASTING:	
IF "YES", AUTHORIZATION GRANTED BY (NJDEP Official) (NJDEP Official) (Date) Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? IF "YES", authorization granted by (NJDEP Official) (Date) I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. JEFF OFFICES Performing Work (Print or Type) Address Mailing Date July 1991			NG MATERIAL: PV	C	
IF "YES", AUTHORIZATION GRANTED BY	WERE OTHER OBSTRUCTIONS LEFT IN WEI		<i>t</i>	BSTRUCTIONS:	·
Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. Continued the commissioning method used and/or approval to decommission granted by a DEP official? Continued the commissioning method used and/or approval to decommission granted by a DEP official? Continued the commissioning method used and/or approval to decommission granted by a DEP official? Continued the commission granted by a DEP official? Continued the commission granted by a DEP official? Continued the continued the commission granted by a DEP official? Continued the continued	IF "YES", AUTHORIZATION GRANTED BY_				:
I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. JEFF SEAGLERVES Performing Work (Print or Type) Address Ame of NJ Licensed Well Driller (Date) Address Mailing Date J. (Oate)	Was an alternative decommissioning method used	(NJD) and/or approval to	RP Official)	(T)-4-1	NO
I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq. JEFF SERGRERVES Performing Work (Print or Type) Address Address July 104 Address July 104	IF "YES", authorization granted by	· · · · · · · · · · · · · · · · · · ·		ON	
	Performing Work (Print or Type) Yame of NJ Licensed Well Driller	e with N.J.A.C.	7:9D-3 et seq. Od Brok N Address	10/9 J.Mail	1/04 ing Date

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SCHALL DETECTION

DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation			WELL PERMIT #	25-512
PO Box 426 Trenton, NJ 08625-0426	÷	DATE WELL SEA	LED 12-9.	of well sealed
PROPERTY OWNER LE CORP	enter	TO THE REPORT OF THE PARTY OF	64 75 6 77	
ADDRESS 301 E 9th 6	- Cleve	land OH	44114	
WELL LOCATION DO No., Town		Wharton	Morris	Cty.
EFRIA Well No.	-	A Lot No.	Block I	No.
USE OF WELL PRIOR TO ABANDONMENT:	_Monit	or	21008 1	10.
REASON FOR ABANDONMENT: 100	longer	neuard		
WAS A NEW WELL DRILLED? TYPES T	NO	PERMIT#	OF NEW WELL	•
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well	Draw a sketch showing nearest roads, buildings	distance and relations i, etc. ROSS ST	
MATERIAL USED TO DECOMMISSION WELL: Gallons of Water		AS-BUILT WELL (NAD 83 HORIZO)	LOCATION NTAL DATUM	♠N
FORMATION: Consolidated Unconsolidated	1	STATE PLACE COORDIN/ I'HING:OR	EASTING:	
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accept	main in place, but i ed method.	ingrouted liner pipes or a	ny other obstructions r	nust
	NO CASI		VC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ILL? DYES 5	y No what were the	OBSTRUCTIONS:_	·
IF "YES", AUTHORIZATION GRANTED BY_		0	Ň	· .
Was an alternative decommissioning method used	(NID) and/or approval to	EP Official) decommission granted b	(Date) y a DEP official?	YES NO
IF "YES", authorization granted by			ON	
I certify that this well was scaled in accordant SEPENES Performing Work (Print or Type) Name of NJ Licensed Well Driller	Bour Serre		12 13	(Date) 1-9-04 Mailing Date 16991
COPIES: White Whater Allegation		wen willer renom	ming Morie	Registration #

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426	WELL F	ERMIT # 25-5126
Trenton, NJ 08625-0426	DATE WELL SEALED	7-9-04
PROPERTY OWNER LE COY	penter	
ADDRESS 301 E. 9th	St. Cleveland OH 4	4114
170	Main St. Wharton	Morris Cty
EFRIL	2	801
Well No.	Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:		· · · · · · · · · · · · · · · · · · ·
REASON FOR ABANDONMENT: 10	onger needed	
WAS A NEW WELL DRILLED? YES		/ELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well Draw a sketch showing distance a nearest roads, buildings, etc.	S.ST.
MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Bentonite	2	-3
Lbs. of Sand/Gravel (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATU NI STATE PLACE COORDINATE IN US S	M) URVEY FEET
FORMATION: Consolidated Unconsolidated	NORTHING; EASTING: OR LATITUDE: ' LONGITUDE	
To permit adequate grouting, the casing should re- be removed. Pressure grouting is the only accepte	main in place, but ungrouted liner pipes or any other ob ed method.	structions must
WAS CASING LEFT IN PLACE? YES	INO CASING MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ILL? Oyes I'NO WHAT WERE THE OBSTRU	CTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	ON	
Was an alternative decommissioning method used	(NJDEP Official) and/or approval to decommission granted by a DEP off	(Date) ficial? DYES NO
***	ON	
I certify that this well was sealed in accordance		(Date)
Performing Work (Print or Type)	Sound Brook WI	Mailing Date
Name of NJ Licensed Well Driller Signal	ignature of Ni Licensed Well Driller Performing Work	T1699
COPIES: White - Water Allocation		Goldenrod - Driller

SUMMII DRILLING

PAGE 5//66

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT # 25-5126
PO Box 426 Trenton, NJ 08625-0426	of well sealed
	DATE WELL SEALED 12-9-04
	Moter
ADDRESS 130 E. 9th	St. Cleveland OH 44114
WELL LOCATION 170 D Street & No., Town	nan St. Wharton, Morris Cty.
EFRIO	2
Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT.	:_Monitor
REASON FOR ABANDONMENT:	longer needed
\mathcal{F}	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL DIAMETER 4	Cross-section Of scaled well Of scaled well Oraw a sketch showing distance and relations of well site to nearest roads, buildings, etc.
CASING LENGTH	Ross St.
SCREEN LENGTH	
NUMBER OF CASINGS	1 2 100
MATERIAL USED TO DECOMMISSION WELL:	800
Gallons of Water	
188 Lbs. of Cement	
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
Lbs. of Sand/Gravel (none if well is contaminated)	(NAD 83 HORIZONTAL DATUM) NI STATE PLACE COORDINATE IN US SURVEY FEET
•	NORTHING: EASTING:
FORMATION: Consolidated Unconsolidated	OR
	LATITUDE: LONGITUDE: " emain in place, but ungrouted liner pipes or any other obstructions must
be removed. Pressure grouting is the only accepte	red method.
WAS CASING LEFT IN PLACE? YES	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? TYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	ON
Was an alternative decommissioning method used	(NIDEP Official) (Date) d and/or approval to decommission granted by a DEP official? TYES NO
IF "YES", authorization granted by	ON
I certify that this well was sealed in accordance	(NJDEP Official) (Date)
TEFF SEAGREAVES	Bound Brook WT 12-9-04
Performing Work (Print or Type)	Address Mailing Date
Name of NJ Licensed Well Driller	Jugge J16991
S	Signature of NJ Libensed Well Driller Performing Work Registration #
COPIES: White - Water Allocation	7 Yellow - Owner Pink - Health Dept. Goldenrod - Driller

SUMMIT DRILLING

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DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation		WELL PERMIT # 25-5129
PO Box 426 Trenton, NJ 08625-0426	DATE WELL	of well sealed SEALED 12-9-04
PROPERTY OWNER LE COTO		60 60 60 40 40
ADDRESS /301 E. 9th	St. Cleveland	OH 44114
WELL LOCATION DO DO DO Street & No., Town	nain St. Whom	cton, Morris Cty
EFR9 Well No.	Lot No.	801
USE OF WELL PRIOR TO ABANDONMENT:	Monitor	Block No.
REASON FOR ABANDONMENT: 100	longer needed	
WAS A NEW WELL DRILLED? YES		T#OF NEW WELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS MATERIAL USED TO DECOMMISSION WELL: Gallons of Water Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated)	of sealed well nearest roads, build nearest roads,	VELL LOCATION IZONTAL DATUM) DINATE IN US SURVEY FEET
FORMATION: Consolidated Unconsolidated	LATITUDE: '	OR LONGITUDE:
To permit adequate grouting, the casing should reposite removed. Pressure grouting is the only accepte	nain in place, but ungrouted liner pipes d method.	or any other obstructions must
WAS CASING LEFT IN PLACE? YES		
WERE OTHER OBSTRUCTIONS LEFT IN WEI	LL? DYES NO WHAT WERE	THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	(NDEP Official)	ON (Date)
Was an alternative decommissioning method used	and/or approval to decommission grant	ed by a DEP official? TYES NO
IF "YES", authorization granted by	ATIDDE OSIALIN	ON
I certify that this well was sealed in accordance JEFF DEBGVERVES Performing Work (Print or Type) Name of NJ Licensed Well Driller Si	(NJDEP Official) e with N.J.A.C. 7:9D-3 et seq. Address Address gnature of NJ Licensod Well Driller Per	(Date) Mailing Date True forming Work Registration #
CODIES: Value later a linear		S SABSING WHAT A

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SUMMIT DRILLING

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DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426	WELL PERMIT # 25-5129
Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER LE COL	Denter
ADDRESS 1301 E. 9th	// ()
	Dain St. Wharton, Marris Ctu.
Street & No., To	Waship, County
EFR8 Well No.	
MeYI VO	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMEN	m_ Monitor
REASON FOR ABANDONMENT: LO	langer needed
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL 14"	Cross-section Draw a sketch showing distance and relations of well site to
DIAMETER 4in	of scaled well nearest roads, buildings, etc. Ross ST.
CASING LENGTH 4'	
SCREEN LENGTH 10'	
NUMBER OF CASINGS	- H E
	- H Z '
MATERIAL USED TO DECOMMISSION WEL	
Gallons of Water	
188 Lbs. of Cement	
	AS-BUILT WELL LOCATION
Lbs. of Sand/Gravel	(NAD 83 HORIZONTAL DATUM)
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(wone if won is containingled	
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Unconsolidated	LATITUDE: CONGITUDE: "
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be removed. Pressure grouting is the only accept	pted method.
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	(NIDEP Official) (Deta)
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IF "YES", authorization granted by	ON
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JEFF DEAGLEAVES	- Bound Brook UT 12-9-11
Performing Work (Print or Type)	Address Mailing Dare
Vame of NJ Licensed Well Driller	Hereau 7110991
•	Signature of MJ Licensed Well Driller Performing Work Registration #

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DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation PO Box 426		WELL PERMIT # 25-5128
Trenton, NJ 08625-0426	DATE WEL	of well sealed
PROPERTY OWNER LE CONT	xenter	## ## ## ## ## ## ## ## ## ## ##
ADDRESS 1301 E. 977	St., Clevelano	OH 44114
WELL LOCATION /70 No., Town	min St. Luha	
EFR Well No.	Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT;	Monitor	
REASON FOR ABANDONMENT:	longer neede	d
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IF "YES", authorization granted by		ON
I certify that this well was sealed in accordance Performing Work (Print or Type) Name of NJ Licensed Well Driller Si	(NJDEP Official) the with NJ.A.C. 7:9D-3 et seq. Address gnature of NJ Licensed Well Driller Po	Mailing Date
COPIES: White - Water Allocation		Total Control of the

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT #25-51289
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-64
PROPERTY OWNER LE COL	
ADDRESS 1301 E 9th !	St. Cleveland OH 44114
WELL LOCATION 170 No. 170 No., Town	ain St., Wharton, Morris Cty
EFR 6 Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:	
REASON FOR ABANDONMENT:	longer needed
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	INO CASING MATERIAL: PVC
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Performing Work (Print or Type) ame of NJ Licensed Well Driller	Address Address Mailing Date Grant Performing Work Registration #

SUMMIT DRILLING

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DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL_TO: Bureau of Water Allocation PO Box 426	WELL PERMIT # 25-51 28 of well sealed
Trenton, N.J. 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER LE CORP	enter
ADDRESS 1301 E 9th 5	H., Chireland OH 44114
WELL LOCATION 170 Lb Mo Street & No., Town	in St. Wharton, Marris Cty.
EFR5 Well No.	Lot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Monitor
REASON FOR ABANDONMENT: NO	lomer perded
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S	ignature of NJ Cicensed Well Driller Performing Work Registration #

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERMIT # 25 -5128
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 12-9-04
PROPERTY OWNER LE CORper	
ADDRESS / 301 E. 946 5t.,	Cleveland OH 44114
WELL LOCATION 170 No., Town	n St, Wharton, Merris Cty.
Well No.	Lot No. Block No.
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REASON FOR ABANDONMENT: LO	longer needed
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SUMMIT DRILLING

PAGE 64/66

DWR-020 7/02

New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation		WELL PER	MIT# <u>25-57285</u>
PO Box 426 Trenton, NJ 08625-0426	•	DATE WELL SEALED 12	of well sealed
PROPERTY OWNER LE COMPE	oter		
ADDRESS 1301 E. 9th 5		cland OH 4414	4
WELL LOCATION 170 No., Town	Jain St	· •	
EFR3 Well No.	- 	Cot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:	Monit	OY	
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DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

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Well No.	Lot N		Block No.
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JEPE DEAGLEBVES	- Coon	DOOK NU	18-7-09
Performing Work (Print or Type) Name of NJ Licensed Well Driller	1/ Decora	Address	Mailing Date
· · · · · · · · · · · · · · · · · · ·	ignature of N Licensed	Well Driller Performing Work	Registration #
COPIES: White - Water Allocation	Yellow - Owner	Pink - Health Dept.	Goldenrod - Driller

DWR-020 7/02 New Jersey Department of Environmental Protection Water Supply Element - Bureau of Water Allocation

MAIL TO: Bureau of Water Allocation	WELL PERM	
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED / Z	of well sealed
PROPERTY OWNER LE CAR		42 MM PM 44
ADDRESS 1301 E. 97	4 ST, CLEVELAND OH 40	1114
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EFRI		30/
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SCREEN LENGTH NUMBER OF CASINGS 1		100
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Performing Work (Print or Type)	Address	Mailing Bate
Varne of NJ Licensed Well Driller	Signature diNI Licensed Well Driller Performing Work	Registration #
•	1 - A TANAMAN TO THE	

Appendix D 2005 MNA Monitoring Program (Revision 2) January 13, 2005



2025 E. Beltline Ave. SE, Suite 402 Grand Rapids, MI 49546 Telephone: 616-975-5415 Fax: 616-975-1098

www.rmtinc.com

January 13, 2005

FILE COPY

Mr. Anthony Cinque
Case Manager
New Jersey Department of Environmental Protection (NJDEP)
Bureau of Federal Case Management
Division of Responsible Site Party Remediation
CN 028
Trenton, NJ 08625-0028

Subject: L.E. Carpenter & Company, Wharton, Morris County, New Jersey [NJD002168748] 2005 Monitored Natural Attenuation (MNA) (Monitoring Program Revision 2)

Dear Mr. Cinque:

On behalf of L.E. Carpenter & Company (LEC), RMT, Inc. (RMT) has revised the current quarterly groundwater monitoring program as a result of recent modifications to the LEC site monitoring well network, and the initiation of on-site source reduction remedial activities. In preparation for the source reduction remedial project, the abandonment of those monitoring wells, well points, enhanced fluid recovery (EFR) wells, caisson wells and recovery wells identified on Table 7 of the Remedial Action Work Plan (RAWP) (RMT, April 2004) was performed between November 29th and December 9, 2004 by Summit Drilling Company, Inc. of Bound Brook, New Jersey.

Discussions held on-site during the preconstruction meeting to initiate the source reduction remedial project on January 6, 2005 with United States Environmental Protection Agency (USEPA), and subsequent follow-up conversations with New Jersey Department of Environmental Protection (NJDEP) the following day suggested that both the Department and Agency required the continued quarterly monitoring of the MW19/Hot Spot 1 Area (MW19/HS1) located at the northwest corner of the site, at the intersection of North Main and Ross Streets for contaminants of concern (COCs) and monitored natural attenuation (MNA) parameters.

The attached figure and tables outline the revised sample locations, and both the field and laboratory parameters proposed for the continued evaluation of the MW19/HS1 area only. The tables and figure replace the associated materials presented in both the Work Plan for Supplemental Investigation of Natural Attenuation of Dissolved Constituents in Groundwater (RMT, May 2001) ("the MNA Work Plan), and RMT's October 23, 2001 responses to the NJDEP comments dated August 23, 2001 regarding the MNA Work plan. In addition, RMT will continue to use Lancaster Laboratories, Inc., located in Lancaster Pennsylvania, to perform all laboratory analyses identified in the attached tables. Please note this laboratory change in

Mr. Anthony Cinque New Jersey Department of Environmental Protection (NJDEP) January 13, 2005 Page 2

Section 1.3.3 of the Quality Assurance Project Plan (QAPP), presented as Appendix A of the MNA Work Plan.

Once the source reduction remedial project is complete, and a new monitoring network has been approved by NJDEP and USEPA for installation at LEC, RMT will revise the monitoring program to reflect the most recent changes and provide appropriate documentation of these changes. Please contact me at your convenience with any questions.

Sincerely,

RMT, Inc.

Nicholas J. Clevett Project Manager

Attachments:

2001 MNA Work Plan Tables (Rev. 2)

Table 1. Data Quality Objectives and Well Selection Criteria

Table 2. Natural Attenuation Analysis Parameters

2001 Quality Assurance Project Plan (QAPP) Tables (Rev. 2)

Table 1. Field and Laboratory Analyte List

Table 2. Water sample Containers, Preservatives, and Holding Times

Table 3. Natural Attenuation and Remedial Design Analytical Methods

Table 4. Natural Attenuation and Remedial Design Analytical reporting Limits

Figure 1. Revised Monitoring Well Locations and Groundwater / Natural Attenuation Sampling Locations (MW19/HS1)

cc: Stephen Cipot, USEPA
George Blyskun, NJDEP BGWPA
John Prendergast, NJDEP BEERA
Cris Anderson, LEC
Jim Lewis, LEC
Jim Dexter, RMT, Grand Rapids
Jennifer Overvoorde, RMT Grand Rapids
Eric Vincke, RMT Grand Rapids
Dan Oman, RMT Ann Arbor
Central Files

2001 MNA Work Plan Tables 1 and 2 (Rev. 2)

L.E. Carpenter & Company Monitored Natural Attenuation Workplan May 2001 Table 1 - Data Quality Objectives and Well Selection Criteria (Rev. 2)

		MW-19/HOTSROTTAOCO
	Well	Objective
	MW-19	Establish baseline dissolved COC and MNA parameter concentrations in the MW19/HS1 former
	MW-19-1	source area.
		Establish baseline dissolved COC and MNA parameter concentrations in the MW19/HS1 former source area.
	MW-19-2	Establish baseline dissolved COC and MNA parameter concentrations cross gradient of the MW19/HS1 former source area.
	MW-19-5	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
	MW-19-6	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
	MW-19-7	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
٠	MW-19-8	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
	MW-19-9D	Establish baseline dissolved COC concentrations at Ross Street regional interceptor sewer line, and vertical gradient evaluation.
	MW-19-10	Establish baseline downgradient dissolved COC and MNA parameter concentrations
	MW-19-11	Establish baseline downgradient dissolved COC and MNA parameter concentrations

COCs = Contaminants of Concern: benzene, toluene, ethylbenzene, xylenes, and bis (2-ethyl hexyl) phthalate (DEHP)

Note(s):

1. MW-19/Hot Spot 1 Area of Concern (AOC) is located in the northwestern portion of the LEC site; at the intersection of N. Main Street and Ross Street. In lieu of abandoning the majority of the well network in preparation for the Source Reduction Remedial Project, the wells that comprise the MW19/Hot Spot 1 AOC network are the ONLY sample locations from which groundwater quality and MNA parameters will be collected in 2005. Additional wells will be added to the MNA monitoring protocol once their locations have been approved by NJDEP, and the installation and surveying has been performed.

AOC = Area of Concern

MNA = Monitored Natural Attenuation

L.E. Carpenter & Company Monitored Natural Attenuation Workplan May 2001 Table 2 – Natural Attenuation Analysis Parameters (Rev. 2)

FIELDPLARAMETERS: W. S.	SECTION OF THE PROPERTY OF THE SECTION OF THE SECTI	TREQUENCY:
Dissolved oxygen (DO)	360.1 ⁽²⁾ /Probe/Hach Kit	Quarterly
Redox potential (Eh)	(4)Redox electrode	Quarterly
рН	150.1 ⁽²⁾ /pH electrode	Quarterly
Temperature	From conductivity probe	Quarterly
Turbidity	Turbidimeter	Quarterly
Specific Conductance	120.1 ⁽²⁾ /Electrical conductivity meter	Quarterly
Ferrous iron	Hach kit; Method 8146	Quarterly
Carbon Dioxide (CO ₂)	Hach kit	Quarterly
Alkalinity (total)	Hach kit	Quarterly
Depth to water (5)	Electric tape/Water Level Indicator	Quarterly
PAROK NERVENENDERES	AND SECTION OF THE SE	эт эт эт эт эт эт эт эт эт эт эт эт эт э
Benzene	602(1)	Quarterly
Toluene	602 (1)	Quarterly
Ethylbenzene	602 (1)	Quarterly
Xylenes	602 (1)	Quarterly
DEHP	625 (1)	Quarterly
Ammonia Nitrogen (N)	350.3 ⁽²⁾	Quarterly
Nitrate Nitrogen (N)	353.2 or 4110B ⁽²⁾⁽⁴⁾	Quarterly
Sulfate	375.4 or 4110B (2)(4)	Quarterly
Heterotropic Plate Count	9215B ⁽⁴⁾	Quarterly
Methane	3810 (3)	Quarterly
Total Suspended Solids (TSS)	160.2(1)	Quarterly
Total Dissolved Solids(TDS)	160.1(1)	Quarterly
Phosphorus	365.2 ⁽²⁾	Quarterly

Notes:

- (1) Federal Register 40 CFR Part 136, Vol. 49, No. 209, Test Parameters for the Analysis of Pollutants.
- (2) USEPA 300/4-79-020 Methods for Chemical Analysis of Water and Waste.
- (3) SW-846, Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, U.S. EPA, 3rd Edition, 1986.
- (4) Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998.
- (5) All wells listed on Table 1 will be measured before sampling begins.

2001 QAPP Tables 1 thru 4 (Rev. 2)

L.E. Carpenter & Company Quality Assurance Project Plan (QAPP) May 2001 Table 1 – Field and Laboratory Analyte List (Rev. 2)

FIELD METHODOLOGIES		ANALYTES
Purge Stability using a micro purge cell, probe and electrodes	DO, Eh, pH, Temperature, Turbidity, Specific Conductance	
Natural Attenuation criteria using a Hach field kit	Ferrous Iron, CO ₂ , Alkalinity	
LABORATORYMETHODOLOGIES		ANALYTES
Contaminants of Concern (COC)	Organics	Benzene, Toluene, Ethylbenzene, Xylene (BTEX)
		bis (2-ethylhexyl) phthalate (DEHP)
Natural Attenuation Criteria	Anions	Sulfate, Nitrate-N
	Cations	Ammonia-N, Phosphorus
	Other	Heterotropic Plate Count, TSS, TDS
	Breakdown gases	Methane

L.E. Carpenter & Company Quality Assurance Project Plan (QAPP) May 2001 Table 2 – Water Sample Containers, Preservatives, and Holding Times (Rev. 2)

PARAMETERS.	* SACONTAINARA)	Maseylvaksavikus Lie Mehamis	CONTRODUCTION CONTROL	жа эненикальмый —
Volatile organics (i.e., BTEX)	3 x 40 mL glass VOA vials with Teflon®(2) septum	1 x 40 mL VOA vial	Cool to 4°C, add HCl to pH < 2; protect from light	14 days (sample should remain on-site less than 24 hours)
Semivolatile organics (i.e., DEHP)	1 x 1,000 mL amber bottle ⁽⁴⁾	1,000 mL	Cool to 4°C	7 days to extraction 40 days from extraction to analysis
Methane	2 x 40 mL VOA vials with Teflon® septum ⁽²⁾	1 x 40 mL VOA vial	Cool to 4°C; protect from light; may be preserved with HCl to pH < 2	7 days if unpreserved 14 days if preserved
Phosphorus	Use an aliquot from the alkalinity bottle	100 mL	Cool to 4°C	28 days
Sulfate	Use an aliquot from the alkalinity bottle	100 mL	Cool to 4°C	28 days
Ammonia-N	1 x 1000 mL high-density polyethylene bottle ⁽³⁾	100 mL	Cool to 4°C, add H ₂ SO ₄ to pH <2	28 days
Nitrate-N	1 x 250 mL high-density polyethylene bottle ⁽³⁾	100 mL	Cool to 4°C, add H ₂ SO ₄ to pH <2	28 days
Temperature, Eh, pH, Specific Conductivity, Dissolved Oxygen, Ferrous Iron, Turbidity, alkalinity, CO ₂		<u></u>	;	Immediately after sample collected
Heterotropic Plate Count	120 mL sterile plastic	10 mL	Cool to 4°C, add Na ₂ S ₂ O ₃	24-hours
TSS	250 mL G/P	250 ml	Cool to 4°C	7 days
TDS	250 mL G/P	250 ml	Cool to 4°C	7 days

NOTES

- (1) Starting from time of sample collection.
- (2) Collect three extra containers for Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples.
- (3) Collect one extra container for sample spike and duplicate analyses.
- (4) Collect two extra containers for MS/MSD samples.
- (5) QA/QC Sampling: 1 blind duplicate (all analytes); 1 atmospheric blank (all analytes); Trip Blank (BTEX only) @ 1 per cooler (approx 4 TBs/event); Rinsate Blank (all analytes);

L.E. Carpenter & Company Quality Assurance Project Plan (QAPP) May 2001 Table 3 – Natural Attenuation and Remedial Design Analytical Methods (Rev. 2)

PREED/PARCAMETERS	Las As MEDELODÆGDRAHAS SASSA	TRECURNOY
Dissolved oxygen (DO)	360.1 ⁽²⁾ /Probe/Hach Kit	Quarterly
Redox potential (Eh)	(4)Redox electrode	Quarterly
pH	150.1 ⁽²⁾ /pH electrode	Quarterly
Temperature	From conductivity probe	Quarterly
Turbidity	Turbidimeter	Quarterly
Specific Conductance	120.1 ⁽²⁾ /Electrical conductivity meter	Quarterly
Ferrous iron	Hach kit; Method 8146	Quarterly
Carbon Dioxide (CO ₂)	Hach kit	Quarterly
Alkalinity (total)	Hach kit	Quarterly
Depth to water (5)	Electric tape/Water Level Indicator	Quarterly
ZA ANGRAMGRAGIA RAMPAGERE	MANAGERODE SELECTION	E PROFINCOLLINGY
Benzene	602(1)	Quarterly
Toluene	602 (1)	Quarterly
Ethylbenzene	602 ⁽¹⁾	Quarterly
Xylenes	602 (1)	Quarterly
DEHP	625 ⁽¹⁾	Quarterly
Ammonia Nitrogen (N)	350.3 ⁽²⁾	Quarterly
Nitrate Nitrogen (N)	353.2 or 4110B (2)(4)	Quarterly
Sulfate	375.4 or 4110B (2)(4)	Quarterly
Heterotropic Plate Count	9215B ⁽⁴⁾	Quarterly
Methane	3810 ⁽³⁾	Quarterly
Total Suspended Solids (TSS)	160.2 (1)	Quarterly
Total Dissolved Solids(TDS)	160.1(1)	Quarterly
Phosphorus	365.2 ⁽²⁾	Quarterly

Notes:

- (1) Federal Register 40 CFR Part 136, Vol. 49, No. 209, Test Parameters for the Analysis of Pollutants.
- (2) USEPA 300/4-79-020 Methods for Chemical Analysis of Water and Waste.
- (3) SW-846, Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, U.S. EPA, 3rd Edition, 1986.
- (4) Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998.
- (5) All wells listed on Table 1 will be measured before sampling begins.

L.E. Carpenter & Company Quality Assurance Project Plan (QAPP) May 2001 Table 4 – Natural Attenuation and Remedial Design Analytical Reporting Limits (Rev. 2)

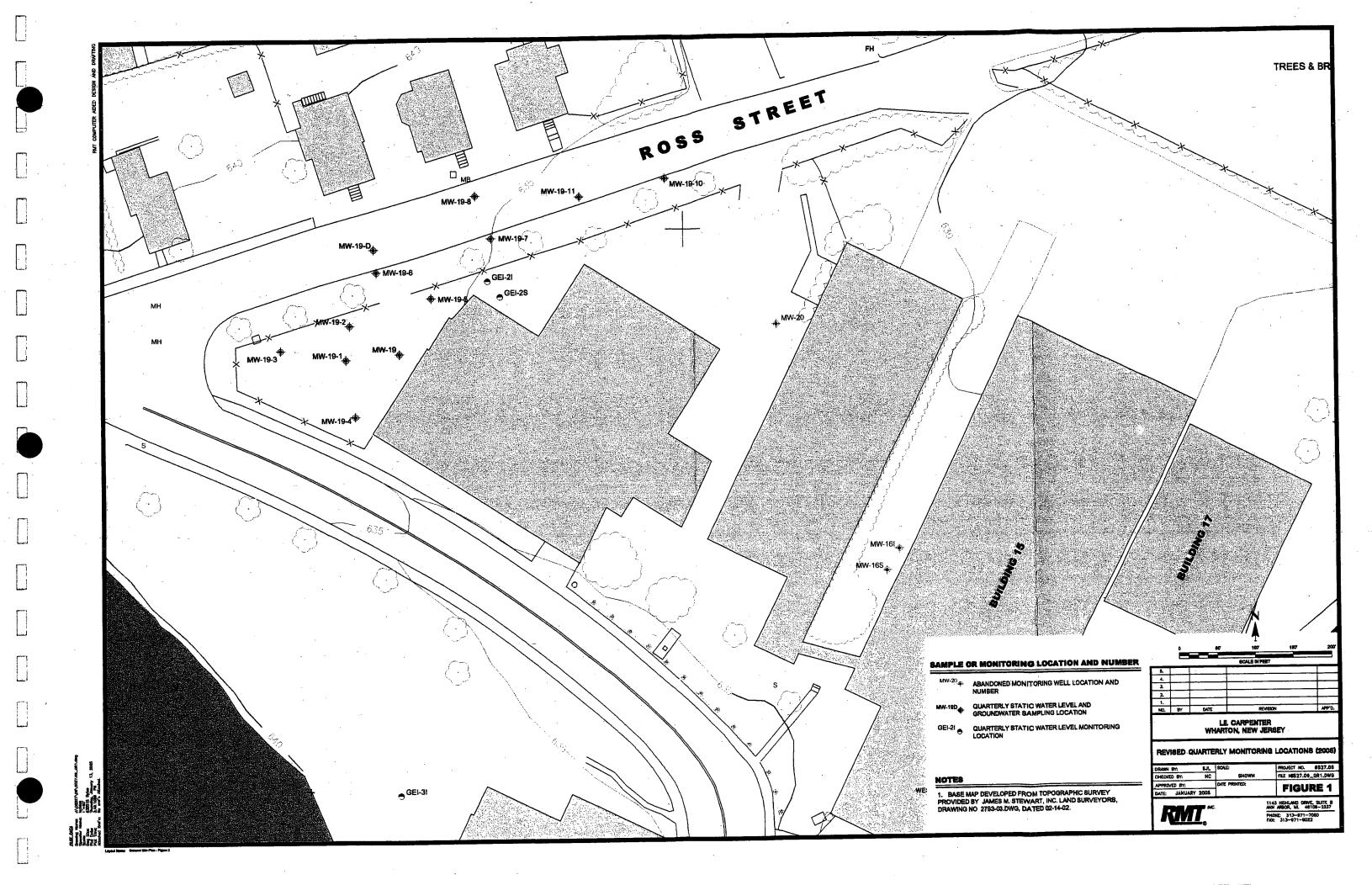
Analyte	Reporting Limit
Ammonia-N	0.10 mg/L
Nitrate-N	0.1 mg/L
Phosphorus	0.03 mg/L
Sulfate	5 mg/L
Methane	5 μg/L
Benzene	0.25 μg/L
Toluene	0.25 μg/L
Ethylbenzene	0.25 μg/L
Xylenes (total)	0.25 μg/L
DEHP	0.5 μg/L
Total Suspended Solids (TSS)	10 mg/L
Total Dissolved Solids(TDS)	20 mg/L
Heterotropic Plate Count	1 cfu/mL

NOTES:

cfu/mL: Colony forming units/milliliter

mg/L: Milligrams per liter $\mu g/L$: Micrograms per liter

Figure 1 Revised Monitoring Well Locations and Groundwater / Natural Attenuation Sampling Locations (MW19/HS1)



Appendix E Road Opening Permit



BOROUGH OF WHARTON ADMINISTRATIVE OFFICES

10 ROBERT STREET, WHARTON, NJ 07885-1997 973-361-8444 EXTENSION 21/ Fax: 973-361-5281

ROAD OPENING PERMIT

DATE:

November 3, 2004

PERMIT # *OP 04-12*

APPLICANT:

L. E. Carpenter & Co.

ADDRESS:

170 N. Main Street, Wharton, NJ

TELEPHONE:

ROAD OPENING LOCATION: One location on Ross Street, as per

attached drawing.

STARTING DATE:

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$**Nov:****8**\\2004\\\\\\$\$\$\$\$\$\$\$

COMPLETION DATE: MERGINERY.

DOES OPENING COMPLETELY BLOCK ROAD:

No

DURATION OF OPENING:

4 HOURS +/-

APPROVED BY:

Pedro R. Moreno

Borough of Wharton

Own AF PLEASE NOTE:

RIVELIMO DVARE

.THE BOROUGH HOUSING/ZONING OFFICIAL ONLY LION DV LE MUST BE NOTIFIED 24 HOURS PRIOR TO THE COMMENCEMENT OF WORK ON ALL ROAD OPENINGS. PLEASE CALL 973-361-8444 EXT 21.

26, 2004

Dwg Size: Plot Date: Plot Time: Attached Xi

J:\06527\02\65270245.dwg lucidos 1°=50*

PLOT DATA Drawing Name: Operator Name: Scale:

Appendix F MW-19-11 Installation Paperwork

RMT

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NJ

Mail To:	WELL PERMIT Permit No. 150006454
BUREAU OF WATER ALLOCATION PO BOX 426 TRENTON, NJ 08625-0426	COORD#: 25.62.386
Owner LE CARPENTER + CO. 170 NO MAIN ST. Whatton NJ 07885	Driller Summit Drilling Co., Inc. Central Jersey Industrial Park Chimney Rock Road, Building 9W Bound Brook, NJ 08805
Name of Facility Address SAME	Diameter of Well(s) Proposed Depth of Well(s) Proposed Proposed Depth of Well(s) Proposed Proposed Depth of Well(s) Proposed Proposed Depth of Well(s) Proposed Proposed Depth of Well(s) Proposed Propos
LOCATION (Lot # / Blog # / Mysicipality on Munty (15) State Atlas Map No. 25 40 o Sto	Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.
1 2 3 ROSS ST ROSS ST ROSS ST ROSS ST ROSS ST	lu,
	ELL LOCATION (NAD 83 HORIZONTAL DATUM) E PLANE COORDINATE IN US SURVEY FEET EASTING: OR LONGITUDE: """""
FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETE THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED: RCRA Site Spill Site INSTALLED: CERCLA (Superfund) Site Pretreatment and Residuals Site Water and Hazardous Waste Enforcement Case Water Supply Aquifer Test Observation Well Other (explain)	This Space for Approval Stamp WELLERMITAPPROVED NJ. DER.
R	For monitoring purposes only Registration No.

Signature of Property Owner Ever

New Jersey Department of Environmental Protection Bureau of Water Allocation

Well Permit Number 2500064542

MONITORING WELL RECORD

HEALTH DEPARTMENT

WELL LOCATION - If not the same as owner ple County Morris Municipality Wh	nte <u>New Jers</u> ase give address	Òv			250238 Code 07885	6
WELL LOCATION - If not the same as owner ple County Morris Municipality Wh	ase give address	Òv			code 07885	
WELL LOCATION - If not the same as owner ple County Morris Municipality Wh	ase give address	Òv			code 07885	
WELL LOCATION - If not the same as owner ple County Morris Municipality Wh	ase give address					
County Morris Municipality Wh	_		vner's well n	o. MV	019-11	
·			Lot No.		· · · · · · · · · · · · · · · · · · ·	
Address 170 NORTH MAIN STREET			·			•
WELL USE Monitoring	•	-		·		0//
WELL USE Momoring					11-30-0	
		DAT	E WELL CO.	MPLETE	0/1-30-0	94
	leasure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating
Total Depth Drilled / 8 ft.	n land surface	Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch no.)
Finished Well Depth ft.	le/Inner Casing		7	ュ	Stainlessie	Jeh 5
	iddle Casing e cased wells only)	-				·
Ton (2 :-	uter Casing					
Bottom in (lar	gest diameter)					
Oto II	Hole or Screen		/0	_	Stainless	- / -
Di Di	ank Casings	_7_	_/2_	2_	Stee/	pch 5
If finished above grade, casing height (No. Us (stick up) above land surface ft.						
	Tail Piece					
Steel protective casing installed?	ravel Pack	5	18		more #2	
Static Water Level after drilling 8 ft.	Grout ,		· !		Neat Cement	188 lbs
Water Level was Measured Using Taxe		0	5		Bentonite	<u>/0</u> lbs
Well was developed for / hours			routing Metho		reme	
at _2 gpm		D	rilling Method		in Kotas	4
Method of development Dunip	•	`		GEOLO	GIC LOG	
Pump Capacity gpm			each depth where	water was er	countered in consolidat	ed
Pump Type		0-	1 Bla	cktoo	9 subbr	as o
	eich Drif					
Health and Safety Plan Submitted? Yes No			10 Coo	bles o	and rgr	avel
Level of Protection used on site (circle one) None	, До Св	$A = \frac{1}{\sqrt{2}}$	17 11	d . 4 .	1 10 a	,
Transfer and the control of the cont		A 70	-11 40	eig si	ey pura	-
«						
				-)	
I certify that I have constructed the above referenced accordance with all well permit requirements and app				<u> </u>		
rules and regulations.	nicable State			: :		
Drilling Company SUMMIT DRILLING CO INC			AS-BU	ILT WEL	L LOCATION	1
Well Driller (Print) Todd Nough	,	-			NTAL DATUM)	
Driller's Signature Tools now	lo	ŅĴS	STATE PLANI	COORDI	NATE IN US SURV	EY FEET
stration No. M16,992 Date	2 116/05	NOR'	THING:		EASTING:	
	<u> </u>			OR		
₩,		LATIT	UDE: 0	",	LONGITUDÉ: 0	, ,
ORIGINAL: DEP COPI	ES: DRILLER	<u> </u>	OWNER		HEALTH DEP	<u> </u>

DRILLER

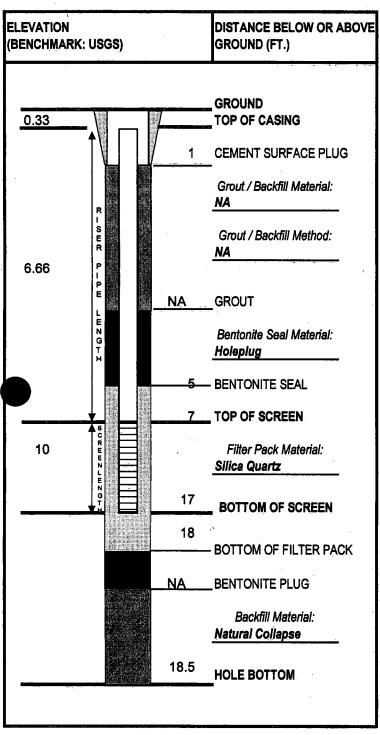
OWNER

K			IN.	c.		WELL CONS	TRUCTION LO	ÓG	14/	121 1	NO	MW-19-11
-\		7.8.4	8						VV.	ELL		Page 1 of 1
Facility	y/Proje	ct Nam					Date Drilling Started	d:	Date Drilling		eted:	Project Number:
, 1				L.E. Carpe			11/30/04	 TOO =		30/04	Don't	6527.08
Drilling			Deilie	na	Drilling Meth	nod: Air Rotary	Surface Elev. (ft) 634.22	1	levation (ft)	otal	22.0	(ft bgs) Borehole Dia. (in)
Borino		ummit tion: 5		ng East of MW	-19-8	All Flutary	Personnel	Ö	JJ.07	Drillin	g Equip	
·						Low	Logged By - E. Vir Driller -					T-650-WII
Civil T		ity/or Vi arton	ılage:		orris	State: New Jersey	Water Level Observ While Drilling: After Drilling:	vations: Date/ Date/		0/04 00 /05 00:0		Depth (ft bgs) 8 Depth (ft bgs) 6.4
SAM	IPLE	_										
NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET			LITHOLOGIC DESCRIPTION	S N		nscs	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
		NA	-	3/6), mo	medium to pist, loose,		ome silt, brown (10	OYR	SW- SM		1 1	
			5-		ES large	o coarse grain with so	omé subangular					
1 O			10-	gravels, around	, brown (7.	5YR 4/6), wet, loose	possible fill mate	rial	sw			Drillers cleaned ou hole w/ out air Cuttings saturated
Signa	ture:					Firm: RM	T Inc. 5 E. Beltline Ave. S	te 402	Grand Pe	nide		616-975-5415 Fax 616-975-1098

Checked By: J.ID/JO

RMI	WELL CONSTRUCTION I BELOW GROUN	DIAGRAM D	SHEET DATE:	11/30/2004	of	
PROJECT:	L.E. Carpenter		PROJECT NO:	6527.08		
LOCATION:	50 ft. East of MW-19-8	WELL NUMBER:		MW-19-11	DATE INSTALLED:	11/30/2004
V. BY:	E. Vincke	CHECKED BY:			SIGNED:	

1.



CASING A	ND SCREEN DETA	ILS:			
A)	Type of pipe: Stainless Steel		Pipe S	chedule: 40	
•	Pipe Joints: Threaded O-ring	J			···
•	Solvent Used? None				
•	Screen Type: Stainless Steel		Screer	Slot Size: 0.010	
E)	Borehole Diameter: 6 In. f	from <u>0</u>	_ To _	18.5	_Ft.
	In. f	from	_ To _	<u> </u>	_Ft.
F)	Surf. Casing Diamet		<u> </u>	1	_Ft.
	2nd Surf. Casing:	from	_ To _		_Ft.
G)	Installed Protective	Cover w/Lo Yes			
	/ELOPMENT: Method: Surge and Purge	e			
B)	Time spent develop	ing:		0.7	_Hrs.
C)	Water:	Removed:	3	0 Gallons	<u> </u>
		Added:		0	
Ď)	Water Clarity Before Before:		-	nt:	,
	After:	Cloud	dy		*
F)	Odor (Describe if pro	esent)			

						a Carr. Casing.				
	X S	7	TOP OF SCREEN					То	Ft.	
10	CR E E Z		Filter Pack Material: Silica Quartz		ins —	talled Protective	Yes	· · · · · · · · · · · · · · · · · · ·		•
	F 1 D Z m L	17	BOTTOM OF SCREEN	2. WELL DE) Me	.OPMENT: ethod: urge and Purg	e			
		18	- BOTTOM OF FILTER PACK	В		ne spent develop		0.:	7Hrs	١.
		NA_	_BENTONITE PLUG	С) Wa	ater:	Removed: _	30 Gallor	ıs	_
			Backfill Material: Natural Collapse				Added: _		<u> </u>	_
	77.00			. П) Wa	ater Clarity Before	e / After Deve	lopment:		,
		18.5	_HOLE BOTTOM		,	Before:	Brown	•		
*. **** · · · · · · · · · · · · · · · ·						After:	Cloudy	/		
NOTES:	· · · · · · · · · · · · · · · · · · ·			J F) Od	or (Describe if po				
	6.0" casing	a down di	ue to hole collapsing in order	· to						
			aned out casing once well ar		EVE	EL SUMMARY:				
d pack we	re in place	the casin	g was pulled back out of the	hole. A) Aft	er Developing:	f	t. Below Top of	Casing	
				- _			,			_
The hole was	collapsing	at 15.0' b	gs.	- B		ner Date / Time:		-	<u>.</u>	_Ft.
				-	. Ut	ner Date / Time:				Ft.
06/03				,		н	::COMMONIGRM FOR	RMSVFIELD FORMSWW-1	9-11.xis	

Appendix G MW-19-11 Monitoring Well Certification Form B

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

<u>Louis J. Weber NJPLS # 33183, NJPP # 3883</u> PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

Louis J. Weber & Associates, Inc., 47 Woodport Road, Sparta, NJ 07871 (973) 726-4240 PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

Appendix H 1st Quarter 2005 Monitoring Well Sampling Data



PROJECT NAME:	L. E. Carpenter
PROJECT NUMBER:	6527.10
LOCATION:	Wharton, NJ
DATES OF FIELD WORK:	January 11-14, 2005
PURPOSE OF FIELD WORK:	1st Quarter Groundwater Monitoring
WORK PERFORMED BY:	Eric Vincke
	n,
· .	

RMT FI	ELD NOTES		ATE: 1-11 - 1	2	of 37
				os Vincke	
PROJECT: LEC			ROJECT NO 652	7.00 ID	
IME ARRIVED ON SITE	jų 50		ME LEFT SITE:	1740	
VEATHER: Temperature:	<u>30's</u> •	Wind:	0-5 MPH	Visibility:	CLP
ORK/SAMPLING PER	RFORMED: <u>Go</u>	t Sampli c water	ng Cquipm levels	rent aroun	d,
	<u> </u>				
ROBLEMS ENCOUNTER	RED / CORRECTIVE /	ACTION:			
	-				
:		<u> </u>	.		
				·	
				•	
MMUNICATIONS:					
NAME REPRES	ENTING:	J. Everyon	orde N.	Clevett J.	Denter
	· ·				
SUBJECT / COM	IMENTS:		its 10st	destrayed	- lab to
•				destrayed	- lab to

REVIEWED BY

DEAT	-	 		SHEET			of	37
RIVIT.	FIELD NOTES			DATE:	1-12-0		, <u>vi</u>	
ROJECT: LEC				AUTHOR:		cre		
IME ARRIVED ON S	SITE: 740	 		TIME LEFT	NO 6527.0	800 800		
					OIIL.	<u> </u>		
VEATHER:								
Temperature:	<u>30's</u> 4		Wind:	0-5	MPH	Visibility:	Me	d
						•		
ORK / SAMPLING	PERFORMED: 1	Samal	ad	Mari and				
MW-19	PERFORMED::: -2 (See at Mu	<u>الهامهيم</u> د م	- 1	nw-17	<u>7-70, r</u>	1W-19-7	, MW-	19-8.
Dub I	a coee	<u> 50.n</u>	aple.	1062	for de	tail) P	150 to	DOK
<u> </u>	ac Mu	1-19-7						
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OBLEMS ENCOUN	TERED / CORRECT	CIVE ACTIC	7 N+					
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		<u> 20016</u>	-pot	<u>cali</u>	brate,	just	used i	<i>H</i> 7.
			No.	- , - ,	<u> </u>			
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							2	
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<u> </u>								
MMUNICATIONS:								
NAME REPR	ESENTING: \	D.60	vancal a	, /n	\ <u>^</u>			
i ir urima I Vingi ()	ESENTING: <u>J.</u>	DVE	100100	- / KI	71			
SUBJECT / C	OMMENTS:	Site	12	مل				
		1.1-	YXI	ي حي				

Ein Lucks SIGNED

1-12-05

Alverroarde REVIEWED BY

2/15/05

FIELD NOTES	SHEET 4 of 37 DATE: /-/3-05
	AUTHOR: E. Vincke
PROJECT: LEC	PROJECT NO 6527.02 /O
TIME ARRIVED ON SITE: 745	TIME LEFT SITE: 22 00
	·
NEATHER: Temperature: 40's *F	Wind: 0-5 MPH Visibility: 10w
VORK / SAMPLING PERFORMED: Sample	d MW-19-9D, MW-19-1, MW-19.
MW-19-5, MW-19-6, A	4W-19-11/ See Sample logs for
detail). Also took	MS/MSD and Alm sample.
ROBLEMS ENCOUNTERED / CORRECTIVE ACTION:	The contract of the contract o
so just used off 7.	Lost pump in MW-19-9D.
Could not retrieve it.	. Continue sampling with
L. E. Corpenter pump	Continues (Continue to Fix
C. E. Compensed pump	<u> </u>
!	
MMUNICATIONS:	
NAME REPRESENTING: 6. Swar	nson, J. Overvoorde / RMT
	,
SUBJECT / COMMENTS: Site Upda	te Pumo Recovery
Sin Venick 1-13-05	-10,-

SIGNED

REVIEWED BY

PAT FIFE NAME	SHEET 5 of 37
FIELD NOTES	DATE: 1-14-05
PROJECT: LEC	AUTHOR: E. Vincle
TIME ARRIVED ON SITE: 655	PROJECT NO 6527.9% 10 TIME LEFT SITE: 14 06
	THINE LEFT SITE: 14
VEATHER: Temperature: <u>30'</u> 5 °F	Wind: 5-10 MPH Visibility: Mcd.
VORK / SAMPLING PERFORMED: Take	Rinse Blank of pump. Try
dean	Rapids/RMT pump. Pack and
-	
· · · · · · · · · · · · · · · · · · ·	
ROBLEMS ENCOUNTERED / CORRECTIVE ACTION	[·
ROBLEMS ENCOUNTERED / CORRECTIVE ACTION	
pump	left in well - unable to recover er convers, w/ N. Clevett / E. Swan
pump	lest in well - unable to recover
pump	lest in well - unable to recover
pump	lest in well - unable to recover
pump	lest in well - unable to recover
pump	lest in well - unable to recover
pump	lest in well - unable to recover
pump	lest in well - unable to recover
Pump P DMMUNICATIONS:	lest in well - unable to recover

Ein Vanch 1-1405 SIGNED

REVIEWED BY

EQUIPMENT SUMMARY		SHEET: 6 of 37 DATE: 1- 14-05					
				CHECKED	BY: E. Vinke		
OJECT:	L-E. Corpenter	PROJECT NO:	65 37.	10	REVIEWED BY:	40	
						•	
WATER HEVE	Limeasurements were could	Creen Autrila	19.0				
	QED MP 30	•			LEC		
Name and Mo	del Number of Instrument			-	Serial Number (if ap		
•							
				. h			
na in o a	DIFFON OF WELL MEASUREMENTS	Maka Kalandan	ED WILH	No.		- Fig.	1.00
•	RED MP30				LEC		
Name and Mo	del Number			-	Serial Number (if ap	nlicable)	
		41			oonar (ambor (a ap	prioasio)	
						<u>. </u>	
PURGING ME	THOD:						
	20 Dal 11 31	11 -			â â		
	DED Portable Bladel Number of Pump or Type of Bailer	Over		-	Sorial Number //f on	allechia)	
realine and mor	net transper of Family of Type of Daties				Serial Number (if ap	plicable)	•
			•		•		
PURCE WATE	IR DISPOSAL METHOD:						
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5 90	ullon buckets into	o 55 ga	Mon a	drums			
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SAMPLING		*	· ·				
Osur Citosia		Programa and					
QEC	Portable Bladde	ר			16		
Name and Mod	del Number of Pump or Type of Bailer			•	Serial Number (if ap	plicable)	
Teffor	lined PE					-4	
Turbing Type	1 MNG PC						
ruibing type							
-					•	-	
FILTRATION I	METHOD:			T.			100
	NA NA)			<i>N</i>		
Name and Mod	del Number of Device				Serial Number (if ap	plicable)	
	NA				NA		
Filter Type				•	Tubing Type		·
·· .					· 0 ·/F*		
DECONTAMIN	ATION AND FILED BLANK WATER	SOURCE	16				
	100				1 10		
Potable Water	Source (if applicable)				LAB DI Water Source		
	/				21 11atol 30tilos		

RMT.	PH / CONDUCTIVITY METER CALIBRATION LOG	SHEET DATE: 1-12-0	7 of 37
PROJECT: I	C. C.		25
		PROJECT NO:	6527.02 10
	Wharten, NJ	SAMPLER NAME: J.O	
MODEL: OF D	MP DO SERIAL NO: L.E.	C - DEVICE OWNER: 1	<u> </u>

pH CALIBRATION

ESPANDE ET IMERS	DHEADREAN ASANABRATION	ophadrocus. Saubrations	ENGRESPACES	in applyable		DHAUPREACH	SANTHAIN POSTA
		READING	PERDINE:	A PEADING		SAMBRATIONS READING	CALIBRATION MREADING
8 37	⁴ /4.00	-≭ /4.00	7.44 /7.00	7.0 /	7.00	/ 10.00	/ 10.
13 55	4 /4.00	★ /4.00	7.35 /7.00	7.0 1	7.00	/ 10.00	/ 10.
·	/ 4.00	/ 4.00	/7.00		7.00	/ 10.00	/ 10.
	/ 4.00	/ 4.00	/ 7.00		7.00	/ 10.00	/ 10.
	/ 4.00	/ 4.00	/ 7.00	1	7.00	/ 10.00	/ 10.
	/ 4.00	/ 4.00	/ 7.00		7.00	/ 10.00	/ 10.0
	/ 4.00	/ 4.00	/ 7.00		7.00	/ 10.00	/ 10.
	/ 4.00	74.00	/ 7.00		7.00	/ 10.00	/ 10.0

Buffer Log Numbers:

pH4: <u>24 овзч9</u> pH7: <u>2 4 о9 20 р</u>Н 10: _____ Solution Source

CONDUCTIVITY CALIBRATION

DARE/FIME	conductivity solution. 2. Conductivity solution.	SOLAHREYOM BRADINGA North Charles	POSICALIFRA (ON READING
800	1.412 mmcm	1.50	1,410
14.06	1.412	1,409	1, 410
	•		

CALIBRATION SOLUTION LOT NUMBER: 1403 255	CALIBRATION RANGE FOR SOLUTION: 1412 = 1
PROBLEMS / CORRECTIVE ACTIONS: * 자나 니	probe solution won't calibrate
wor	it accept calib.

Ein Musiki SIGNED

1-12-05

REVIEWED BY

2 15/05

RIVIT	ORP				
"WIII.	METER CALIBRATION LO	G	SHEET	& of	37
PROJECT:	L-E.C.		DATE: 1-	12-05	
LOCATION:	Wharton, NJ		PROJECT NO:	6527.02	
MODEL:	QED MP 20 Flow SERIAL NO:	RMT-GRM	SAMPLER NAME:	J.O.	E.V.
	Through Cell	L.B.C.	DEVICE OWNER:	RMT-CRM	C. C.
ORP CALIBRA	TION				
DATE/SIMES			AWHONER ENGINEERS	i di Holande Anii	evanioner sammen
			misyesette e		(units)
q12	432	2	1 4)	434	
13 57	433	43	3	433	
				733	
· · · · · · · · · · · · · · · · · · ·		 			
					
-					
CALIBRAT	TION SOLUTION LOT NUMBER:	NR	CALIBRATION RANGI	E FOR SOLUTION	425 - 450
PROBLE	EMS / CORRECTIVE ACTIONS:				
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,	/ /				
c · //	112		_		
GNED	Ch 1-12-05		Dverroad	ه	2/15/05
	DATE	REVIE	VED BY		DATE

RIMT.		BIDITY METER BRATION LOG	SHEET	9 of 37
PROJECT: L	-E-C		DATE: 1-	-12-05
LOCATION:	Wharton, N		PROJECT NO:	
MODEL: Ha	ch voice on , in		SAMPLER NAM	E.V.
7.60	<u>CIV</u>	SERIAL NO: ()	E.c. DEVICE OWNE	R: 1.E.C.

TAIDAGE/TIME	0210/NIJO/READING	Section of the sectio	O (DOO!N DEREADING)	
દ્વાર	5	50.9	499	Novalets/Avdenances/
1463	Le	50.9 S1	502	
				à
				-
			200	

PROBLEMS / CORR	ECTIVE ACTIONS:	CALIBRATION RANGE FOR SOLUTION	ON: NA
//			
i Vanile	1-12-05	_Dremoordo	
ED	DATE	REVIEWED BY	2-15-05

PH / CONDUCTIVITY METER CALIBRATION LOG	SHEET 10 of 37
PROJECT: L-FC	
LOCATION	PROJECT NO: 6527.02 10
V 103 1031 1031	CAMPIED MANEE LO
MODEL: QED MP20 SERIAL NO: 1-F-C	DEVICE OWNED:

pH CALIBRATION

POPULATINE AS	opiazalates ezabjaszadlok ez	CALIBRATION	en and a personal and a personal and a personal and a personal and a personal and a personal and a personal an	Tarangosa Managaranga	POHYOPRESSA VEALERATION	TIROS BIANT
	YAREADING IN HIS	CREADING (e areadines a	Partition of the state of the s	READING	CALIBRATION FILEREADINGS
809	→ /4.00	≠ /4.00	17.00 كان	7.0 17.00	/ 10.00	
1463	/ 4.00	/4.00	7.18 /7.00	7.00 17.00		/ 10.
	/ 4.00	/ 4.00	/ 7.00	/7.00		
	/ 4.00	/ 4.00	/ 7.00	/ 7.00	/ 10.00	/ 10.
	/ 4.00	/ 4.00	/ 7.00	/ 7.00	/ 10.00	/ 10.
- 2 1/2	/ 4.00	/4.00	/ 7.00	/7.00	/ 10.00	/ 10.
	/ 4.00	/4.00	/ 7.00	/7.00	/ 10.00	/ 10.
	/ 4.00	/ 4.00	/ 7.00	/7.00	/ 10.00	/ 10.

pH4: 2408349	pH7: 2409220 pH 10:	Solution Source

CONDUCTIVITY CALIBRATION

A(E/AINE)	SE SENDUCINA YSOLUTIO)	1944 PRECAUBRA PON READING TURNES	PosiceAGERATION/REAT
8 00	1.419	1.311	1.412
1400	1.412	1.438	1,419

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-	1		
			
CALIBRAT	ION SOLUTION LOT NUMBER: 14	03955 CALIBRATION RANG	FOR SOLUTION: 1412 \$1
PROBLE	EMS / CORRECTIVE ACTIONS:	* PH 4 probe	solution won't or won't accept
		calibrate	or won't accept
	,	Calibr	
Ein Ven	de 12 m		
SIGNED	DATE	REVIEWED BY	2 15/05 DATE

RIVIT	ORP METER CALIBRATION LOG		SHEET	Иof	37
PROJECT:	L-E-C.		DATE: PROJECT NO:	1-13-05 6527.02	10
LOCATION: MODEL:	Wharton, NS		SAMPLER NAME:	10-	E.V.
MODEL.	QED MP 20 Flow SERIAL NO: Through Cell	PMT-GRW 2-G-4	DEVICE OWNER:	RMT-GRM	LEC

ORP CALIBRATION

ALAILAINE	Y ORPSOLUTION (Links)	PRESCAL BRAHON READING (*)	POST CALERATION READING
807	435	433	435
1407	435	434	435
· · ·			
			· · ·

	CALIBRATION SOLUTION L		CALIBRATION RANGE FOR SC	LUTION: 425-450
	PROBLEMS / CORRECTI	_		
IGNE	· Vinste	/-/3-05 DATE	AO remoorde REVIEWED BY	2/15/05 DATE

RIVIT.	TURBIDITY METER CALIBRATION LOG	SHEET	12 of 37
PROJECT: LE.		DATE: 1-13-0	5
1.0045	The state of the s	PROJECT NO:	6527.0210
11000	Wharton, NJ	SAMPLER NAME: بالو	3. E.V.
MODEL: Hack	SERIAL NO: L.C.C	DEVICE OWNER:	1.E.C

DATELITME	0310NEUREADING	L ACIONNIU READING)	Carron National Control	CALIBRATIONN moded
કુષ્વ	5	48	500	Secretary Secretary Section (Section Section S
1409	5	49	500 500	
	f			
		24		
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CALIBRATION SOLUTION LOT NUMBER:	A4040	CALIBRATION RANGE FOR SOLUTION:	M
PROBLEMS / CORRECTIVE ACTION	IS:	<u>-</u>	
N.			
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Ein Vinite	1-13-05	م لم وجود و المحال	-1 /
SIGNED	DATE	REVIEWED BY	2/15/05



WATER LEVEL DATA

PROJECT NAME: L.E. Carpenter

DATE: 1-11-05

PROJECT NUMBER: 6527.10

SAMPLER: E. Vincte

	The state of the				a Book Carrolle Carroll		400000000000000000000000000000000000000	a)
17				M.	1.5			
Well-ID	Time	Top of Casing Elevations	Historical Depth to Wate	Depth to Product (feet)	Depth to Water (feet)**	Depth to Bottom (feet)	Mater Elev	
MW-19	11011			1	8.19	16.57	J(MSL)	
MW19-1	1607				7.74	15.28		1
MW19-2	1609				8.60	15.89		1
MW19-3	16 01				8.81	13.01		1
MW19-4	1600				7.21			•
MW19-5	14 13				8.01	15.61		
MW19-6	1620				8.29	19.7		!
MW19-7	11/27				7.61	20.28		
MW19-8	1633				7.98	19.55		
MW19-9D	1623				7.94			
MW19-10	1703	,	•	· side	6.48	,		
MW19-11	16 56				6.40	15.73	4.4	
GEI-1I			A 33 6 2	**				
GEI-2S	1616		A 1 大震	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9,55			
GEI-21	11.5				9.64		4	
GEI-3I	1646		100	Jan .	11.81		•	
MW-8								
MW-9				4	1.54	**************************************		* * * .
MW-12			- 11.2					
MW-13S	<u> </u>					•		
MW-13S(R)								· Car
MW-13I		2 1000	•				,1	
MW-15Ï	13:08			·	8.80			21-14-05
MW-15S	13:09				8,85			5' ''
MW-17S	***					•	**	
MW-185	٠, سنو	V.	,					
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MW-21			. :					
MW-23	•						1	
MW-25								
MW-26								~ .
SGD-1							-	e2
SGD-2								
SGD-3	:						· .	
SGR-1	1649				1.95	•		2.2 Wall
SGR-2		7						
SGR-3								*

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+aremoude dislos =

QC'd By

Date

Date



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC	WELL NUMBER:	M				
PROJECT NUMBER: 00-06527.92 10						
DATE: 1-12-15	WELL DIAMETER: 2" SAMPLER: J.O. & E.V.					
Type of pump used: Port Bladder	J. C. & E. V.					
Pumping rate (milliliters/minute):						
Water level before purging (nearest 0.01 ft. beld	OW reference point) (T/0.0				
Depth to bottom of well (obtained from well to						
Calculated volume of water in casing	8 L (of 2.21 an)					
Weather conditions Roin, 30's	(- 3-1)					

Jine	Porge Rate (ml/min)		Conductivities	Tubidity	L Dissolved Oxygen Ge/L no/c	ORP			Cumilative Elirge Volume
9 45	400	7.02	1230	7 1000	\$.38		- 4		ا الول
980		7.08	1109	633	1.99	361	246	Co. 2/5	0
955		7.12	1089	289		353	18.96	6.45	2
/D 00		7.12	1079	127	0.89	340	13.10	6.45	4
1600		7.14	1064		1.44	326	13.00	6.45	6
1 0 10		7.16		27	1.53	216	12.89	6.45	8
1015		7.4	1054	62	0.4	8	13.0	6.45	10
1020			1047	41	0.55	301	ASA H	6.45	12
1025		7.21	1044	So	143	295	13.11	6.45	14
1030		7,3%	10.37	25	200	399	13.17	色旗	16
10		7.35	1639	ఎక	.33	39 5	13.19	6.45	18
10		-			-15			6-HS-	
			····					(D) = 3-3	
						 			
				Fat 1					· · · · · · · · · · · · · · · · · · ·
									
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NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10% or ≤10 NTU; DO ±10%; ORP ±20 mV

•	¥	final	0.0.	Taken	w/	, 00 <u>+</u> 10%; Kit	ORP <u>+20 m</u> V
			• -	(Caper	ω,	1417	

Fedors Fe - 2 ppm



WATER SAMPLE LOG

Sheet 15 of 37 PROJECT NEORWATION PROJECT NAME: L.E. Carpenter EVENT NAME: 4th Quarter, 200 Sampling SAMPLER NAME 1: L. Overvoorde SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527.92-10 SITE LOCATION: Wharton, NJ SAMPLE DATE: SAMPLE TIME: WELLINFORWATION WELL ID: MW-19-10 WELL DIAMETER: 2.0" WELL MATERIAL: WELL CONDITIONS: Good STATIC WATER LEVEL: 6.45 TOTAL DEPTH: 20.0 FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: ☐ EQUIP. COATING ☐ PURGE WATER SAMPHE METHOTA PURGE METHOD: flow (use purge form) SAMPLING PUMP: Port. Riadder PNEUMATIC SOURCE BLADDER TYPE: (new) used) TUBING TYPE: tellon lined PE Good TUBING CONDITION: WATER QUALITY METER TYPE: aed mp 20 CALIBRATION DATE / TIME SAMPHEDESORIEMON COLOR: CLR - Cloude ODOR: FINAL D.O. mg/L FINAL ORP FINAL TURBIDITY: 2 NTU FINAL PH: 7.25 SU FINAL COND. µmhos/cm FINAL TEMP .: COMMENTS: SAMPLEFILTRATION FILTER TYPE / SIZE / DESCRIPTION: NA FILTER METALS SAMPLE ONLY COLOR AFTER FILTRATION: NA Sorgilis spilled PRESERVATIVE CODES: A - None B - HNO3 C - H₂SO4 D-NaOH E-HCL F-Na2S2O3 Number Type Preservative Filtered Number Size Type Preservative⁶ Filtered 5 40 ml Glass E □Y ⊠ N 500 ml Plastic EY B N 2 1000 ml Amber F □Y ⋈ N 2 1000 ml **Plastic** Α □Y ⊠ N 2 1000 ml Glass C □Y ⊠ N 1 120 ml **Plastic** F □Y⊠N 1 40 ml Glass C □Y ⋈ N 1 250 ml Amber □Y ⊠ N 1 40 ml Glass □Y ⊠ N $\square Y \square N$ CHAIN-OF-CUSTODY NUMBER: 79/37 DATE SHIPPED: 1-12-0 METHOD: AIRBILL NUMBER: SIGNED: DATE:

F-186 (REV 09MAY2002) FIELD FORMS\FIELD FORMS\WATERSAMPLELOG.DOC 10/22/04



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LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: <u>LEC</u>	WELL NUMBER:MW-19	i-7 %
PROJECT NUMBER: 00-06527,92 16	WELL DIAMETER:	
Type of pump used: 1-12-65 Roct Bladder	SAMPLER: J.O. & E.V	
Pumping rate (milliliters/minute):		
Water level before purging (nearest 0.01 ft. belo	w reference point) 7.50+	T/OC
Depth to bottom of well lobtained from well to	est + 20, 28 tion	<u> </u>
Calculated volume of water in casing	8.3 L	
Weather conditions Overcast, 30'	\$	

Time	Purge Rate (ml/mih)	PH (SU)	Conductivity:	Turbidity (NTD)	Dissolved Oxygen (mg/L) or 0	ORP	Temp	Water halfer	Cumulative Furge Volume
1120	400	6.70	719	3	0.5			gioca fea	i wrz
1125	400	7.26	733	٠ ي	0.5 0.5	309	11.63	7.50	0
1130	400	7.31	747	1	0.5	304	11.15	7.58	٥
1135	400	7.27	763	1	1.0	300	11.30	7.58	4
्री स्व	400	7.21	993			298	11.40	7.58	<u>b</u>
1145	400	7.16	1346		1.0	294	11.40	7.58	8
1150	400	7,14	1393		0.45	291	11.51	7.58	10
11 22	400	7.16	1388		مارات	288	11.68	7.58	12
			1380		0.6	281	KI. 34	7.58	14
								-	
					.				
		·			·				
				 -					
	-								
			S COMPLETE IA						

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - \pm 0.1 SU; COND. - \pm 5%; TEMP (CORRECTED) - \pm 0.5°C; TURBIDITY \pm 10% or \leq 10 NTU; DO \pm 10%; ORP \pm 20 mV

	/ ,		RIMOS	4	3 ppm
Signed	Jh	<u>/-/2</u> Date	QC'd By	-	2 15 05 Date



WATER SAMPLE LOG

Sheet 17 of 37 PROJECTINEORWATION PROJECT NAME: L.E. Carpenter EVENT NAME: 4th Quarter, 2006 Sampling SAMPLER NAME 1: J. Overvoorde SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527,02 10 SITE LOCATION: Wharton, NJ SAMPLE DATE: 1-12-05 SAMPLE TIME: WELLINFORMATION WELL ID: WELL DIAMETER: 2.0" MW-19-7 WELL MATERIAL: WELL CONDITIONS: STATIC WATER LEVEL: 7,50 TOTAL DEPTH: 20.28 ☐ MEAS. THICKNESS: ☐ EQUIP. COATING ☐ PURGE WATER Syampide Methodo **PURGE METHOD:** (use purge form) صب SAMPLING PUMP: tort. Blacker PNEUMATIC SOURCE COMPRESSO BLADDER TYPE: (new)/ used) TUBING TYPE: 1-1100 **TUBING CONDITION:** Building WATER QUALITY METER TYPE: QED MP 20 **CALIBRATION DATE / TIME** Same description COLOR: ODOR: FINAL D.O. mg/L FINAL ORP mΫ الاح FINAL TURBIDITY: NTU FINAL PH: SU FINAL COND. 1388 µmhos/cm FINAL TEMP.: °C COMMENTS: ום-Pטת Taken SAMPLEFILLERATION FILTER TYPE / SIZE / DESCRIPTION: NA FILTER METALS SAMPLE ONLY COLOR AFTER FILTRATION: NA Boardesanded PRESERVATIVE CODES: A - None B-HN03 C-H2SO4 D - NaOH E-HCL F-Na₂S₂O₃ Number Type Preservative Filtered Number Size Type Preservative³ Filtered 5 40 ml Glass Ε □Y ⊠ N 500 m OY-BN Plastic 2 1000 ml F Amber □Y ⊠ N 2 **Plastic** 1000 mi Α $\square Y \boxtimes N$ 2 1000 mi Glass C □Y ⊠ N 1 120 ml F **Plastic** 1 40 ml Glass C 250 ml **Amber** LY MN 1 40 ml Glass Α □Y⊠N $\square Y \square N$ CHAIN-OF-CUSTODY NUMBER: 79/37 DATE SHIPPED: 1-12-05 METHOD: NA AIRBILL NUMBER:

F-186 (REV 09MAY2002) FIELD FORMS\FIELD FORMS\WATERSAMPLELOG.DOC 10/22/04



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC	WELL NUMBER:Mw-19-8
PROJECT NUMBER: 00-06527.02 16 DATE:1-12-05	WELL DIAMETER: 3" 55
Type of pump used: Port. Badd	er
Pumping rate (milliliters/minute): 320	
Water level before purging (nearest 0.01 ft. belo	w reference point) 8.9 + T/OC
Depth to bottom of well obtained from well los	est + 19.55T/OC
Calculated volume of water in casing	6.90 L
Weather conditions Overcast, 30's	(b) (b)

	Purge Rate	pH as (SU)	st onductivity	Turbidity	Dissulved Wyygen	ORP.	Jemp _i	Water Tevel	Cumulative Puige Volume
1420	320	The second second			ingi)oi %	i mV	(°C)a. c	34(0,01.16)	沙加人
1425	Jaro /	6.86	207	<u>503</u>	0.6	282	10.79	8.9	0
1430	 /	6.85	204	135	0.6	253	19.54	8.9	1.6
1455	 	6.87	200	87	0.8	240	12-56	8.9	3.2
14 40	 	6.90	193	87	0.8	218	12.55	8.9	ય.જ
14 45	 	6.91	190	91	1.0	268	12.70	8.9	6.4
1450		6.94	187	50	1.0	196	12.62	8.9	8
14 55		6.96	185	47	1.0	193	12.77	8.9	9.6
1500		Le.98	185	37	1.20	186	12.84	8.9	11.0
		6.99	183	35	0.6	183	19.88	8.9	12.8
1505		6.99	189	21	0.6	176	12.89	8.9	14.4
1510		Theot	<u> 189</u>	33	0.6	175	12.93	4.9	16
1515		7.08	181	26	book	rio	18.61	8.9	
1526		7.03	\$81	21	b 3	169	83	8.9	17.6
1202		7.03	181	15	65-0	165	7.1		19.2
1536		7.05	180	17	0.5	163	13.81	8.9	20.8
1535	V	7.06	177	16	0.3	الحا	12.93	8.9	७ २.५
				7-1-1			150 10	8.9	24

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10% or ≤10 NTU; DO ±10%; ORP ±20 mV

Former R 10 ppm

Signed Signed

1/12 Date

QC'd By

2 15 05 Date



WATER SAMPLE LOG

Sheet 19 of 37 PROJECT INFORMATIONS PROJECT NAME: L.E. Carpenter EVENT NAME: 4th Quarter, 200 Sampling SAMPLER NAME 1: J-Overvoorde SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527,02 SITE LOCATION: Wharton, NJ SAMPLE DATE: 1-12-05 SAMPLE TIME: WELLINEORMATION WELL ID: WELL DIAMETER: MW-19-8 WELL MATERIAL: 55 WELL CONDITIONS: Good STATIC WATER LEVEL: 8.9 TOTAL DEPTH: 19.55 FREE PRODUCT: SHEEN MEAS. THICKNESS: ☐ EQUIP. COATING ☐ PURGE WATER SAMPLEMENTOE: PURGE METHOD: flow (use purge form) ow SAMPLING PUMP: PNEUMATIC SOURCE Bladder compressor **BLADDER TYPE:** (new/ used) TUBING TYPE: Teffon lived **TUBING CONDITION:** Georg WATER QUALITY METER TYPE: QED MP 20 CALIBRATION DATE / TIME Samared excellentant COLOR: ODOR: Clear Hookers vellow FINAL D.O. 0,3 mg/L FINAL ORP FINAL TURBIDITY: NTU FINAL PH: 7.06 SU FINAL COND. umhos/cm FINAL TEMP .: °C COMMENTS: SAMPLEBULERATION FILTER TYPE / SIZE / DESCRIPTION: NA FILTER METALS SAMPLE ONLY COLOR AFTER FILTRATION: NA BOJALESARIEREO PRESERVATIVE CODES: B - HNO3 A - None C - H₂SO4 D-NaOH E-HCL F-Na₂S₂O₃ Number Size Type Preservative[®] **Filtered** Number Size Type Preservative **Filtered** 5 40 ml Glass E □Y ⊠ N 500 ml Plastic OY BN 2 1000 ml F Amber □Y ⋈ N 2 1000 ml Plastic Α 2 1000 ml Glass C □Y ⊠ N 1 120 ml **Plastic** F □Y⊠N 1 40 ml Glass C □Y ⊠ N 250 ml Amber DY N 40 ml Glass Α □Y ⊠ N CHAIN-OF-CUSTODY NUMBER: 79/37 DATE SHIPPED: 1-12-05 METHOD: Lab HC/C NA AIRBILL NUMBER: SIGNED:

F-186 (REV 09MAY2002) FIELD FORMS\FIELD FORMS\WATERSAMPLELOG.DOC 10/22/04



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: <u>LEC</u>	WELL NUMBER: MW-19-2
PROJECT NUMBER: 00-06527.02 10 DATE:	WELL DIAMETER: 4" 55
Type of pump used: Port Bladder	SAMPLER: J.O. & E.V
Pumping rate (milliliters/minute): 400 Water level before purging (nearest 0.01 ft. belo	
Depth to bottom of well lobtained from well lo	FSY + 15.89 T/OC
Calculated volume of water in casing	8.0 L
Weather conditions Overeast Mist	30`s

Time	Purge Rate (ml/min)	PH (SU)	Conductivity	Tuendity	Dissolved "Oxygen (mg/L) 5: %	ORP.	Temp	Availe Level	Cumulative Furge Volume
16 50	400	7.27	819	37	2.0	ఎ35	11.07		
16 55		7,37	814	ग	ನಿ ೦	236	10.60	8.65	2
1700		7,26	815	25	2.0	238	10.70	8.65	4
1705		7.26	818	18	1.0	241	11.00	8.65	lo
1715		7.36	826	81	1.0	243	10.56	8,67	8
1700		7.27	821	14	1.0	245	11.09	8.67	10
1725		7.31	<u> 835</u>	15	11.0	248	11.18	8.67	[a]
	Y	7.30	825	10	1.0	249	11.60	8.67	14
		<u> </u>							
		-			.				-
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NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - \pm 0.1 SU; COND. - \pm 5%; TEMP (CORRECTED) - \pm 0.5°C; TURBIDITY \pm 10% or \leq 10 NTU; DO \pm 10%; ORP \pm 20 mV

Ferrous Fe 0 79m

Signed Date

Dremocode QC'd By

2/15/05 Date



WATER SAMPLE LOG

Sheet 2 of 37

PROJECT INFORMATION PROJECT NAME: L.E. Carpenter EVENT NAME: 4th Quarter, 2005 Sampling

SAMPLER NAME 1: J. Overvoorde SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527.02 10

SITE LOCATION: Wharton, NJ SAMPLE DATE: 1-12-05 SAMPLE TIME: 17-25

WELL INFORMATION WELL ID: MW-19-3 WELL DIAMETER: 4.0"

WELL MATERIAL: SS WELL CONDITIONS: Good

STATIC WATER LEVEL: 8.6 TOTAL DEPTH: 15.89

FREE PRODUCT: SHEEN MEAS. THICKNESS: EQUIP. COATING PURGE WATER

SAMPLE METHOD:

SAMPLING PUMP: Port. Bladder

BLADDER TYPE: PE (new used)

TUBING TYPE: Teffon lived PE TUBING CONDITION: Good How stored: Storage buttong

WATER QUALITY METER TYPE: DED MP 20 CALIBRATION DATE / TIME /-/2-05 13 55

SAMPLE DESCRIPTION	COLOR: CLR	ODOR: None
FINAL D.O. / D mg/L	FINAL ORP 249 mV	FINAL TURBIDITY: 10 NTU
FINAL PH: 7.30 SU	FINAL COND. 835 µmhos/cm	FINAL TEMP.: //,02 °C
COMMENTS:		

SAMPLEFILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA	
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA	

BOTH	ues fillu	D _{inter}	PRESERVA A - None	PRESERVATIVE CODES: A - None B - HNO3 C - H2SO4 D - NaOH E - HCL F- Na2S2O3						
Number	Size	Туре	Preservative	Filtered	Number	Size	Type	Preservative*	Filtered	
5	40 ml	Glass	E	□Y⊠N	4	500 ml	Plastic	A	DY BN	
2	1000 ml	Amber	F	□Y⊠N	2	1000 ml	Plastic	Α	□Y⊠N	
2	1000 ml	Glass	С	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N	
1	40 ml	Glass	С	□Y⊠N	1-	250 ml	Amber	+=	□Y ⊠ N	
1	40 ml	Glass	Α	□Y⊠N		-		-	□Y □ N	

CHAIN-OF-CUSTODY NUMBER: 79/3	DATE SHIPPED:	1-12-05	_ METHOD:	Fed Ex
AIRBILL NUMBER: 8490046350	SIGNED:	Ein Unich	DATE:	1-12-05



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC	WELL NUMBER:	MW-19-95
PROJECT NUMBER: 00-06527.02 10 DATE: 1-13-05 Type of pump used: Port. Bladde	WELL DIAMETER: _ SAMPLER: J.O. & E.V	J" 55
Pumping rate (milliliters/minute): 300	<u>u.</u>	<u> </u>
Water level before purging (nearest 0.01 ft. belo	w reference point) 75	7+ T/OC
Depth to bottom of well obtained from well of	gs) _ + 33.5 T	/OC
Calculated volume of water in casing	16.59 L	<u> </u>
Weather conditions Overcast, 40	'S	

Time	Purge Rafe	рH	_Conductivity	Tarbidity	Dissolved	ORB.	Temp	Water	Carmilla Live
	*(ml/min)	(Su)	(idS/cm)	patter	Obeygen (mg/EF of %	100	4	Lêvel 😌	Puige Volum
830	300	6.89	1580	189	3.0	432	7.63	7,97	130000
835		6.94	1363	287	ಎ೦	307	10.40	7.97	1.5
840		6.95	1323	357	3.0	260	10,26	7.97	
845		6.98	1254	355	2.0	234	10.92	7.97	30 4.5
82		7.62	1137	339	ع.5	215	11.08	7.97	
855		7.04	1089	897	ی.ه	211	11.04	7.97	7.5
905		7,06	1046	311	1.0	304	10.93	7.57	9.0
		7,10	954	294	1.0	198	11.20	7.97	10.5
910		7,29	896	271	1.5	195	11.25	7.97	12.0
920		7.13	897	948	1.5	195	11.26	7.97	13.5
9-05	Y	7,14	871	267	1,5	193	11.58	7.97	15.0
700		<u> </u>		ı					10.0
			·	2/2/					
									· · · · · · · · · · · · · · · · · · ·

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - \pm 0.1 SU; COND. - \pm 5%; TEMP (CORRECTED) - \pm 0.5°C; TURBIDITY \pm 10% or \pm 10 NTU; DO \pm 10%; ORP +20 mV

<u>fair Umile</u> Signed

<u>/-/2</u> Date QC'd By

2/15/05 Date



WATER SAMPLE LOG

Sheet 33 of 37

PROJECT INFORMATION. PROJECT NAME: L.E. Carpenter EVENT NAME: 4th-Quarter, 200 Sampling

SAMPLER NAME 1: J. Overvoorde SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527.02

SITE LOCATION: Wharton, NJ SAMPLE DATE: 1-13-05 SAMPLE TIME: 9 20

WELLINFORMATION WELL ID: 2.0" WELL DIAMETER: MW-19-9D WELL MATERIAL: WELL CONDITIONS: STATIC WATER LEVEL: TOTAL DEPTH: 7.97 33.5 FREE PRODUCT: ☐ MEAS. THICKNESS: SHEEN ☐ EQUIP. COATING ☐ PURGE WATER

SAMPLE METHOD:

SAMPLING PUMP: Port Blacker PNEUMATIC SOURCE Compressor

BLADDER TYPE: He new used)

TUBING TYPE: Idea line PE TUBING CONDITION: Good HOW STORED: Storage building

WATER QUALITY METER TYPE: DED MP 20 CALIBRATION DATE / TIME 1-13-05 82

SAMPLEDESORIPHION COLOR: ODOR: Flooders None. FINAL D.O. mg/L FINAL ORP mV FINAL TURBIDITY: 267NTU FINAL PH: SU 871 FINAL COND. µmhos/cm FINAL TEMP .: COMMENTS:

SAMPLE FLUTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA

	LESFILLE	D _A a series		PRESERVATIVE CODES: A - None B - HNO3 C - H ₂ SO4 D - NaOH E - HCL F- Na ₂ S ₂ O ₃							
Number	Size	Туре	Preservative	Filtered	Number	Size	Туре	Preservative	Filtered		
5	40 ml	Glass	Ε	□Y⊠N	4	500 ml	Plastic	A	UY N		
2	1000 ml	Amber	F	□Y⊠N	2	1000 ml	Plastic	A	□Y⊠N		
2	1000 ml	Glass	С	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N		
1	40 ml	Glass	С	□Y⊠N	1	250 ml	Amber	-E			
1	40 ml	Glass	Α	□Ÿ⊠N		-			□Y □ N		

CHAIN-OF-CUSTODY NUMBER:	79139	DATE SHIPPED:	1-13-05	METHOD:	Lab Pickra
AIRBILL NUMBER:	M	SIGNED:	En Vinita	DATE:	1-13-05



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC WELL NUMBER: MW-1	9-1
PROJECT NUMBER: 00-06527.02 10 WELL DIAMETER: 4 DATE: 1-13-04 SAMPLER: J.O. & E.V. Type of pump used: Port Bhace	
Pumping rate (milliliters/minute):	T/OC
Depth to bottom of well (obtained from well logs) + 15.28 T/OC	
Calculated volume of water in casing 18.48 L Weather conditions Overcast, 40's, Run	

Proceedings	No. a refer to the second of the second								- .
Time .	PürgeRate (ml/min)	pH (SE)	Conductivity (u5/cm)	Furniany (NTU)	Dissalved Obygen a mg/Lyoi %	ORP.	Tempa.	Water Tevel (0.015 fe).	Cumulative Edige Volum
1410	400	8.00	690	39	1.0	398	11.46	7.80	(A)
1415		7.80	678	26	1.0	306	11.48	7:80	2
1492		7.77	679	24	1.0	260	11.46	7.80	4
1430	-	7.72	674	39	1.0	236	11.43	7.80	6
1435		7.76	<u>619</u>	30	1.0	<i>23</i> i	11.43	7.80	8
1440		7.74	678	17	1.0	393	11.50	7.80	
1445	-	7.78	678	13	1.0	218	11.50	7.80	19
		1100	676	/0	1.0	୬୲૩	11.49	7,80	14
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			<u>·</u>						
									
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			·					- <u>-</u>	
									<u> </u>

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - \pm 0.1 SU; COND. - \pm 5%; TEMP (CORRECTED) - \pm 0.5°C; TURBIDITY \pm 10% or \leq 10 NTU; DO \pm 10%; ORP \pm 20 mV

Signed Date Derevourde 2/15/05
Date



WATED CAMPLE LOC

:			AAYIE	-IN OA	IVIP LI)	Sheet	25of 37	
EPR(G)	HECT INE	ornation:	PROJECT	Carpenter	EVEN	IT NAME: 44	Quarter, 200			
SAMPL	ER NAME 1:	J. Overvoorde	SAMPLER	NAME 2: E.	Vincke		PROJECT NO: 00-06527.02			
SITE LO	OCATION: W	/harton, NJ		ATE: /-			PLE TIME:	14 45	<u> </u>	
L					<u> </u>	OAW	CE TIME.	14	— <u> </u>	
-WI⊒EI	INFORM	ΑΤΙΌΝ-	WELL ID:	Albert 16	· · · · · · · · · · · · · · · · · · ·	WELL	DIAMETER:	4.0"		
	MATERIAL:	<u> </u>	WELL CON	MW-19	<u> </u>			4.0		
STATIC	WATER LEV	/EL: 7.5			FOTAL DEP	TH: 15 =	<u> </u>			
FREE F	RODUCT:		MEAS. THICK		01/12 02:	<u> </u>		PURGE WATE	:D	
<u> </u>	·							ONOE WATE		
CAMI	LEMETH	ior.	PURGE ME	THOD:		Λ.				
					low	How	·	(use	purge form)	
	ING PUMP:		nadder_		PNEUMATIC	SOURCE	compres	SSOC .		
<u> </u>	ER TYPE:	PE_		/Jused)					* .	
	TYPE: Tell	on lined PE	TUBING CO		Good	HOW	STORED: 5	torage b	vilding	
WATER	QUALITY ME	TER TYPE:	1P DED	20 0	ALIBRATIC	N DATE / TII	ME 1-13-0	5 /	40/	
SAMP	LE DESC	RIPTION:	COLOR:	CLR			ODOR:	None.		
FINAL D	0.0. 1.0	mg/L	FINAL ORF		mV		FINAL TURBI			
FINAL P	H: 7.80	su	FINAL CON		μmhos	/cm	FINAL TEMP.)C	
COMME	NTS:	MS/MS	D Tal				· · · · · · · · · · · · · · · · · · ·			
•	`							·		
SAME	/BEGING	AT ON	FILTER TY	PĒ/SIZE/C	ESCRIPTIO	ON: NA				
FILTER	METALS SAI	MPLE ONLY	COLOR AF	TER FILTRA	TION: NA					
risto au	ues Fine:	ED:	PRESERVA A - None	TIVE CODE: B - HNO3	<u>S</u> : C - H ₂ SO4	D - NaOH	E-HCL F-I	Nassana		
Number	Size	Туре	Preservative	Filtered	Number	Size	Туре	Preservative	Filtered	
5	40 ml	Glass	E	□Y⊠N	1	500 ml	Plastic	A	DY M N	
2	1000 mi	Amber	F	□Y⊠N	2	1000 ml	Plastic	A	□Y⊠N	
2	1000 mi	Glass	С	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N	
1	40 ml	Glass	С	□Y⊠N	1	250 ml	Amber	E	□Y≠⊠ N	
1	40 ml	Glass	Α	□Y⊠N			7 1111501	_	ПУПИ	

AIRBILL NUMBER: SIGNED: DATE: F-186 (REV 09MAY2002)
FIELD FORMS\FIELD FORMS\WATERSAMPLELOG.DOC 10/22/04

CHAIN-OF-CUSTODY NUMBER: 79139 DATE SHIPPED:

METHOD:



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: <u>LEC</u>	WELL NUMBER:MW-19
PROJECT NUMBER: 00-06527.02 /0	WELL DIAMETER: 4" SS
DATE: 1-13-05	SAMPLER: J.O. & E.V
Type of pump used: Port. Bladder	
Pumping rate (milliliters/minute): 400	
Water level before purging (nearest 0.01 ft. belo	w reference point) 8.15+ T/OC
Depth to bottom of well obtained from well lo	# 16.57 T/OC
Calculated volume of water in casing	20.80 L
Weather conditions Overcast, 40's	

		Rwge Kare	(St)	Conductivity	(NEO)	Elissolved / TOsygen /mg/Line%	ORP Sh	Jemp P©j	Vater Level	Pomulative Ruge Volume
	16 ³⁰	400	7.74	592 592	9	0.12	175	11.88	8.15	0
	1640		7.66	581	5	0.15	138	11.78	8.3	2
	1645	17	וריל	581	5	0.9	105	11.75	8.3	4
	16	V	7.67	590	5_	0.0	100	11.80	8.3	8
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NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10% or ≤10 NTU; DO ±10%; ORP ±20 mV

Signed Date QC'd By Date



WATER SAMPLE LOG

·				-1-1				Sheet	27 of 37	
PROJECT INFORMATION: PROJECT NAME: L.E. Carpe					E. Carpenter	EVE	NT NAME: 4	r ⊋Quarter, 200	Sampling	
SAMPL	ER NAME 1:	L Overvoorde	SAMPLER	NAME 2: E	Vincke	PRO	DJECT NO: 0	0-06527,02	10	
SITE LO	OCATION: W	harton, NJ	SAMPLE D	ATE: /-	-13-05	SAI	IPLE TIME:	1650		
WELL	INFORM	ATION	WELL ID:	MW-1	9	WE	LL DIAMETER:	4.0"		
WELL	ATERIAL:	<u>5</u> S	WELL CON		Good			-7.0		
	WATER LEV	<u> </u>			TOTAL DEP	TH: 16	57			
FREE P	RODUCT: I	SHEEN DI	MEAS. THICK	VESS:		□ EQUIP.		PURGE WATE	R	
SAME	are with the	OD*	PURGE ME	THOD:	low +	Now		(use	purge form)	
SAMPLI	NG PUMP:	Part. B	addes		PNEUMATIC		Compres	Sort		
BLADDE	ER TYPE:	Æ		/ used)						
TUBING	TYPE: Tef	on lined PE	TUBING CO	ONDITION:	Good	HOV	V STORED: 8	tomae bu	tiding	
WATER	QUALITY ME	TER TYPE:	ED HP 2	٥	CALIBRATIC	ON DATE / T	IME 1-13-0	5 14	20	
					1 444					
SAME	iğelőjeső	EVIETHOIN	COLOR:	CLi	7	···	ODOR:	1 h-H-	,	
FINAL D	.o. o.a	mg/L	FINAL ORP		mV		FINAL TURBIDITY: 5 NTU			
FINAL P			FINAL CON) μmhos	/cm	FINAL TEMP.: //82 °C			
COMME							. 22	·· //100	·	
t		·		· · · · · · · · · · · · · · · · · · ·		······································		- 11.1		
5.00										
SAME	les albura	AHON	FILTER TY	PE / SIZE /	DESCRIPTION	ON: NA				
FILTER	METALS SAM	MPLE ONLY	COLOR AF	TER FILTE	RATION: NA					
										
BOTT	LES FILLE	D.	PRESERVA A - None	TIVE COD B - HNO3	<u>ES</u> : C - H₂SO4	D - NaOH	E-HCL F-	Na-S-O-		
Number	Size	Туре	Preservative*	Filtered	Number	Size	Туре	Preservative*	Filtered	
5	40 ml	Glass	E		4	500 mi	Plastic	Α	□Y Ø N	
2	1000 ml	Amber	F	□Y⊠N	2	1000 ml		Α	□Y⊠N	
2	1000 ml	Glass	С	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N	
1	40 ml	Glass	С	□Y⊠N	1	250 ml	Amber	E		
1	40 ml	Glass	Α	ÚY ⊠ N	1				□Ү□И	
· .										
-			16							
CHAIN-OF	F-CUSTODY N	JMBER:	40 DATE S	HIPPED: _	1-14-05	<u> </u>	METHOD: L	ab Pickus	2	
AIRBILL N	CHAIN-OF-CUSTODY NUMBER: 79140 DATE SHIPPED: 1-14-05 METHOD: Lab Pickup AIRBILL NUMBER: NA SIGNED: 112-5									

F-186 (REV 09MAY2002)
FIELD FORMS\FIELD FORMS\WATERSAMPLELOG.DOC 10/22/04



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC PROJECT NUMBER: 00-06527.02 DATE: 1-13-05 Type of pump used: Port. Blo	WELL NUMBER:MW-19-5 WELL DIAMETER:2" SS SAMPLER: J.O. & E.V
The state of the s	400
Water level before purging (nearest 0.01 ft. b	pelow reference point) 7.974 T/OC
Depth to bottom of well (obtained from well	110ge) + 15.61 T/OC
Calculated volume of water in casing	4.97 L
Weather conditions Dock, 40	S
Eurge Rate pH Conductivity Turbidity (int/min): (SU) (uS/en) STID	Dissolved ORP Temp, Water of Oxygen Level

17.50 7.94 369 133 0.8 197 9.72 7.97 0 1745 7.89 363 19 0.8 217 10.48 8.65 4 1750 7.95 366 15 1.0 224 10.54 8.65 6 1755 V 7.94 269 9 1.0 326 10.59 8.65 8 1755 V 7.94 269 9 1.0 326 10.59 8.65 8 1755 1.0	75me		SU):	Conductivity (v. 1976)	1.4.35	Districted Seygen Intg/Li or %	ORP mv	非 法 经等	Water - Level (0.00 gs)	L Cumulafiye Tirge Volume (gal)
1745 7.89 363 31 0.8 313 10.37 8.85 2 1750 7.95 366 15 1.0 224 10.54 8.65 6 1755 7.94 369 9 1.0 326 10.59 8.65 8					133	0.8	197			
1750 7.95 366 15 1.0 224 10.54 8.05 6 1755 V 7.94 269 9 1.0 326 10.59 8.05 8	L 1.1	 				0.8	213	1		
1755 V 7.94 269 9 1.0 224 10.54 8.65 6	_ 	 			 	0.8	217			
7.79 269 9 1.0 336 10.59 8.85 8		1		–		1.0	221	10,54		31.0
	110	Υ	7.74	269	9	10	356			8
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NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10% or ≤10 NTU; DO ±10%; ORP ±20 mV

1/.1		Ferrous	E	NggO
Signed Signed	<u>/-/3</u> Date	Deveroorde QC'd By	Z/I	5/05



WATER SAMPLE LOG

Sheet 29 of 37 EVENT NAME: Quarter, 2005 Sampling PROJECT NESKWARIOW PROJECT NAME: L.E. Carpenter SAMPLER NAME 1: J. Overvoorde SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527,02 10 SITE LOCATION: Wharton, NJ

SAMPLE TIME:

WELL INFORMATION	WELL ID: MW-	19-5	WELL DIAMETER: 2.0"
WELL MATERIAL: SS	WELL CONDITIONS:	Good	
STATIC WATER LEVEL: 7.97		TOTAL DEPTH:	15.10
FREE PRODUCT: SHEEN DM	EAS. THICKNESS:	DEC	QUIP. COATING PURGE WATER

1-13-05

SAMPLE DATE:

SAMPLE METHOD: PURGE METHOD:	low Haw	(use purge form)
SAMPLING PUMP: Port. Bladder	PNEUMATIC SOURCE	compressor
BLADDER TYPE: Rew used)	- Company of the Comp	
TUBING TYPE: Telon lined PE TUBING CONDITION:	Gent How	STORED Storage Building
WATER QUALITY METER TYPE: QED MP 20	CALIBRATION DATE / TI	

SAMPLE DESCRIPTION	COLOR: CLZ	ODOR: 226
FINAL D.O. J.D mg/L	FINAL ORP 226 mV	FINAL TURBIDITY: 9 NTU
FINAL PH: 7.94 SU	FINAL COND. 269 µmhos/cm	FINAL TEMP.: 10.59 °C
COMMENTS:		

SAMP SENERAL SAME SAME	FILTER TYPE / SIZE / DESCRIPTION: NA	
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA	

PRESERVATIVE CODES: A - None B - HNO3 C - H ₂ SO4 D - NaOH E - HCL F- Na ₂ S ₂ O ₃									···
Number	Size	Туре	Preservative	Filtered	Number	Size	Туре	Preservative	Filtered
5	40 ml	Glass	E	□Y⊠N	1	500 ml	Plastic	1	□Y ⊠ N
2	1000 mi	Amber	F	□Y⊠N	2	1000 ml	Plastic	A	□Y⊠N
2	1000 ml	Glass	C	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N
1	40 ml	Glass	С	□Y⊠N	1	250 ml	Amber		
1	40 ml	Glass	Α	□Y⊠N			7 4 11301		OY ON

CHAIN-OF-CUSTODY NUMBER: 79140	DATE SHÎPPED:	1-14-05	MÈTHOD:	Lab Pickup
AIRBILL NUMBER:	SIGNED:	E. Vnich	DATE:	1-13-05



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: <u>LEC</u>	WELL NUMBER: MW-19-6
PROJECT NUMBER: 00-06527.92 10	WELL DIAMETER: 2" SS
DATE: 1-13-65	SAMPLER: I.O. & F.V.
Type of pump used: Port. Blace	dder
Pumping rate (milliliters/minute):	D
Water level before purging (nearest 0.01 ft. bel	ow reference point) 8.25 T/OC
Depth to bottom of well (obtained from well i	953) + /9.76 T/OC
Calculated volume of water in casing	7.44 L
Weather conditions Overcost, Mist,	

					ζ,				-
Time	Purge Rate	PΗ	Conductivity	Turbidity	Dissolved	ORF	Temps	Water	Cumulative
	(m/mm)	(SU)	(u5/cm)	(NTU)	Oxygen (mg/L) or %		41 = 17 C) =	:_Bevöl	Puge Volume
1840	400	7.77	818	267				2-(0.01.FE): 3	
1845	1	7.77	847	219	0,8	246	11.08	8.25	0
18 50		7.76	850	43	0.8	241	12.07	8,98	2
1855		7.77	853	32	0.8	238	13.03	8,92	4
19 00		7.75	864	26	1.0	240	11.67	8,25	6
1905		7.73		19	1,0	340	11.53	8,25	8
1910		7,73	876		10	240	11.64	8.25	10
1915	9	7.77		91	1.0	240	11.80	8,25	12
1920			867	12	10	S13	11.90	8,25	14
1925	V	7.74	869	15	1.0	241	11.94	8,25	16
	<u> </u>	7.73	867	12	1.0	241	11,79	8,35	18
 									
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NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - \pm 0.1 SU; COND. - \pm 5%; TEMP (CORRECTED) - \pm 0.5°C; TURBIDITY \pm 10% or \leq 10 NTU; DO \pm 10%; ORP \pm 20 mV

Signed Signed Lord Date Oct By Rerois & Opport



WATER SAMPLE LOG

Sheet 8) of 37

PROJECTINE OR MATION. PROJECT NAME: L.E. Carpenter EVENT NAME: 4th Quarter, 2005 Sampling

SAMPLER NAME 1: J. Overvoorde SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527,92 10

SITE LOCATION: Wharton, NJ SAMPLE DATE: 1-13-05 SAMPLE TIME: 1925

WELLINFORMATION WELL ID: MW-19-6 WELL DIAMETER: 2.0"

WELL MATERIAL: \$5 WELL CONDITIONS: Cocc

STATIC WATER LEVEL: 8.25 TOTAL DEPTH: 19.70

FREE PRODUCT: | SHEEN | MEAS. THICKNESS: | EQUIP. COATING | PURGE WATER

SAMPLE METHOD

PURGE METHOD:

JOW HOW

(use purge form)

SAMPLING PUMP: Port. Bladder

PNEUMATIC SOURCE Compressor

BLADDER TYPE: PE

(new used)

TUBING TYPE: Tolon lined PE

TUBING CONDITION: Cood

HOW STORED: Storage Ruiding

WATER QUALITY METER TYPE: QED MP 20

CALIBRATION DATE / TIME 1-13-05

MODE

(use purge form)

SAMPLEDESCRIPTION COLOR: ODOR: FINAL D.O. mg/L FINAL ORP 241 mV FINAL TURBIDITY: NTU FINAL PH: 7.73 SU FINAL COND. 867 μmhos/cm FINAL TEMP .: °C **COMMENTS:**

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA

BOTT	LES FILLI	D	PRESERVATIVE CODES: A - None B - HNO3 C - H ₂ SO4 D - NaOH E - HCL F- Na ₂ S ₂ O ₃						
Number	Size	Туре	Preservative*	Filtered	Number	Size	Туре	Preservative	Filtered
5	40 ml	Glass	Ε	□Y⊠N	4	500 ml	Plastic	A	UY Ø N
2	1000 ml	Amber	F	□Y⊠N	2	1000 ml	Plastic	Α	□Y⊠N
2	1000 ml	Glass	C	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N
1	40 ml	Glass	С	□Y⊠N	4	250 ml	Amber		DY N
1	40 ml	Glass	Α	□Y⊠N					П П П

CHAIN-OF-CUSTODY NUMBER:	79140	DATE SHIPPED:	1-14-05	METHOD:	Lab Pickup	
AIRBILL NUMBER:	NA	SIGNED:	E. Vinch	DATE:	1-13-05	



LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC WELL NUMBER:MW-19-11	
PROJECT NUMBER: 00-06527.02 10 WELL DIAMETER: 2" S DATE: 1-13-05 SAMPLER: 10 % EV	<u> </u>
Type of pump used: Port. Bladder	
Pumping rate (milliliters/minute):	
Water level before purging (nearest 0.01 ft. below reference point) / 5.55+ T/OC	
Depth to bottom of well (obtained from well logs) + 15.73 T/OC	
Calculated volume of water in casing (0.14 L	_
Weather conditions Night, Mist, 40's	

The server was a server	A service and the service and				·				
	Pringe Rate	3.0	Conductivity	1.0	Dissolved Oxygen (mg/L) or %		Temp.	Water Level	Cümulafiy Fürge Volun
3045 30 50 30 50 30 65 31 10 31 15 31 30	LIPO	7.04 7.03 7.04 7.03 7.01 7.00 7.00	673 673 693 769 719 7.30 740	185 75 45 94 17 15 11 8	1.0 1.0 1.5 1.5 1.5 1.5	२४ २५० २५० २५० २५० २०५ २०५ २०५	9.94 10.01 9.81 10.05 10.05 10.18 10.30	6.28 6.3 6.3 6.3 6.3 6.3	D 2 4 6 8 1D 12 14

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10% or ≤10 NTU; DO ±10%; ORP +20 mV

Existence 1-13 Democrate 2/15/05
Date QC'd By Date



WATER SAMPLE LOG

Sheet 33 of 37

PROJECT INFORMATION PROJECT NAME: L.E. Carpenter EVENT NAME: 4th Quarter, 2005 Sampling

SAMPLER NAME 1: 1 Overveorder SAMPLER NAME 2: E. Vincke PROJECT NO: 00-06527.02 10

SITE LOCATION: Wharton, NJ SAMPLE DATE: 1/13/05 SAMPLE TIME: 2120

WELLINFORMATION -	WELL ID: MW-9-11	WELL DIAMETER: 2.0"
WELL MATERIAL: 55	WELL CONDITIONS: Good	
STATIC WATER LEVEL: 6.28	TOTAL DEPTH:	15.73
FREE PRODUCT: SHEEN ME	AS. THICKNESS: DE	QUIP. COATING D PURGE WATER

SAMPLE METROD : 1	PURGE METHOD:	law	flow			(use purge form)
SAMPLING PUMP: Port. Bo	odes	PNEUMATIC	SOURCE	Compre	SSAC	
BLADDER TYPE: PE	(new used)					
TUBING TYPE: RE	TUBING CONDITION:	Good	HOW	STORED:	Box	·
WATER QUALITY METER TYPE: Q	D MP ad	CALIBRATIC	N DATE / TI	ME 1-13-	05	1400

SAMPLE DESCRIPTION	COLOR: CLR	ODOR: None
FINAL D.O. 1.5 mg/L	FINAL ORP 215 mV	FINAL TURBIDITY: 8 NTU
FINAL PH: 7.01 SU	FINAL COND. 740 µmhos/cm	FINAL TEMP.: 10,30 °C
COMMENTS:		

SAMPLEFILIRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA

(B(0)) dif	ues elua	D N	PRESERVATIVE CODES: A - None B - HNO3 C - H ₂ SO4 D - NaOH E - HCL F- Na ₂ S ₂ O ₃						· · ·	
Number	Size	Туре	Preservative	Filtered	Number	Size	Туре	Preservative	Filtered	
5	40 ml	Glass	E	□Y⊠N	4	500 ml	Plastic	A	□Y ⊗ N	
2	1000 ml	Amber	F	□Y⊠N	2	1000 ml	Plastic	Α	□Y⊠N	
2	1000 ml	Glass	С	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N	
1	40 ml	Glass	С	□Y⊠N	1	250 ml	Amber	E	□Y ⊠ N	
1	40 ml	Glass	Α	□Y⊠N					OY ON	

CHAIN-OF-CUSTODY NUMBER: 79140	DATE SHIPPED:	1-14-05	METHOD:	Lab Pickup
AIRBILL NUMBER: NP	SIGNED:	E. Winch	DATE:	1-13-05



WATER SAMPLE LOG

Sheet 335of 27

\								Sneed	37 OF 37
PROJE	en in in it	RMATION	PROJECT	NAME: L.E	E. Carpenter	EVE	NT NAME: 1	st Quarter, 200	Sampling
SAMPLE	R NAME 1: E	E. Vincke	SAMPLER	NAME 2:		PRO	JECT NO: 0	0-06527.10	· · · · · · · · · · · · · · · · · · ·
SITE LO	CATION: WI	harton, NJ	SAMPLE D	ATE: /-	-14-05	SAM	PLE TIME:	850	
								÷	
WELL	INFORM	ATION.	WELL ID:	RB-1	·	WEL	L DIAMETER		NA
WELL MA	ATERIAL:	NA	WELL CON		1	'IA	· ,		
STATIC	WATER LEV		A		TOTAL DEP		4		
FREE PR	RODUCT: E	SHEEN 0	MEAS. THICK	NESS:				PURGE WATE	R
		*-							
SAMP	EMETE	QD TOTAL	PURGE ME	THOD:			· _	(use	purge form)
SAMPLIN	IG PUMP:				PNEUMATIC	SOURCE			
BLADDE	R TYPE:		(new /	/ used)	ľ				
TUBING .	TYPE:		TUBING CO	ONDITION:		HOW	STORED:	1 (4.47)	
WATER O	QUALITY ME	TER TYPE:			CALIBRATIC	N DATE / TI	ME		·
	•				, I \				
SAMPL	EDESG	RIPTION	COLOR:		MF		ODOR:		
FINAL D.	0. r	mg/L	FINAL ORP)	mV		FINAL TURE	BIDITY: N	ITU
FINAL PH	l:	SU	FINAL CON	ID.	μmhos	/cm	FINAL TEMP	o.: ')C
COMMEN	ITS:								
· .					Access to				
SAMPL	EFILTR	ATION:	FILTER TY	PE / SIZE /	DESCRIPTION	ON; NA		-	
FILTER N	METALS SAN	IPLE ONLY	COLOR AF	TER FILTR	ATION: NA			- 10	<u> </u>
						······································			
BOTTL	ES FILLE	D .	PRESERVA A - None	TIVE CODI B – HNO3	<u>S</u> : C - H₂SO4	D - NaOH	E-HCL F-	Na ₂ S ₂ O ₃	
Number	Size	Туре	Preservative*	Filtered	Number	Size	Туре	Preservative*	Filtered
5	40 ml	Glass	E	□Y⊠N					
2	1000 ml	Amber	F	□Y⊠N	2	1000 ml	Plastic	Α	□Y⊠N
2	1000 ml	Glass	С	□Y⊠N	1	120 ml	Plastic	F	□Y⊠N
1	40 ml	Glass	С	□Y⊠N	** *** *** *** *** *** *** *** *** ***				-
1	40 ml	Glass	A	□Y⊠N					DY D N
					<u> </u>	<u> </u>	<u> </u>	1	
)			15						
CHAIN-OF-	CUSTODY NU	JMBER: <u>791</u> <i>NA</i>	MO DATE S	HIPPED: _	1-14-0	5 <u>5</u>	METHOD:	Lab Pick	קע
AIRBILL NU	JMBER:	NA	SIGNED	e	Emi 1	Inide !	DATE:	1-14-05	5
	9MAY2002)				PUNITUDA Y E CAD				

Analysis Request / Environmental Services Chain of Custody



Acct. #

For Lancaster Laboratories use only

Sample #

Group#

C. Carrier quanty successions		• • •	e												$\cup \pi$	001	010	
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Project Manager: No Cleve ++	P.O.#:			Chec	ė			/	/ ,					/) / F		<i>,</i> .	6
Sampler: E. Vincke	Quote #:			40							/ /	/ /	/ /	(3)	/ / /			
,	quote # 			PSE	16			/							/. /			amba eques
Name of state where samples were collected:	A CONTRACTOR OF THE CONTRACTOR	_(3)	918		. jo	/	- M	\ '\7\	/	/ ·					\ <i>\\$\</i>			6 6 2 8
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E-mail address: nicholas. clevetto		F	Relinqu	iished b	oy:				Date	е	Time						Date	Time
Data Package Options (please circle if required)	j	1-								_							ļ	<u> </u>
QC Summary Type VI (Raw Data) Type I (Tier I) GLP Site-specific QC I	Yes No	F	Relinqu	iished t	oy:				Date	е	Time	Red	ceive	d by:			Date	Time
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Type III (NJ Red. Del.) Internal Chain of	Custody required? Yes	1.5	kelinqi	iished t	oy:				Date	e	Time	Red	ceive	a by:			Date	Time
Type IV (CLP)										\perp					· .		<u> </u>	

0079137

Analysis Request Environmental Services Chain of Custody



	For Lancaster	Laboratories use only			
Acct. #	Group#	Sample #	F.	COC#	0079138

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1	Project Manager: N. Cleve++	P.O.#:			88		2			,	/ /	/	/ -	/ .		13	\$ / <i>F</i>			6
	Sampler: E. VINCKE	Quote #:			184									/		לבלי	/ / /	-		ag ag
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Ì		nple and submit triplicate volume.)	R	elinqı	uished	by:					Date	, 7	Fime	Red	ceive	d by:			Date	Time
- 1	Type IV (CLP) Internal Chain of C	Custody required? Yes No	ı								1	- 1		•				1		

Analysis Request / Environmental Services Chain of Custody

41	Lancaster Laboratories
V.	Where quality is a science.

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• Where quality is a science.	COL. #	Grou	(P#			_Sam	ple#							C	O	C #	007	91	39	
1)	Ple	ease print. Instru	ctions or	n rever	se side	e corre	spon	d with c	ircled	l numb	ers.									
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Sampler: E. Vincke	Quote #					alie						/ /	/ /	/ /	5	/ / /				
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Phone #: 616-775-5415 Fax #: 616	<u>-975 -1</u>	1098																		ľ
E-mail address: <u>Nicholas</u> . Clevett (1) In			Relin	quish	ed by:			•	.	Date	, T	ime	Rec	eived	by:			Date	Time	ı
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Analysis Request≥ Environmental Services Chain of Tustody



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Where quality is a science.	Acct. #	Grou	p#		Sam	ple#							C	O	C #	007	7914	10
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Type IV (CLP)	- Custody requ	med: 165 140																

0070140

Appendix I 1st Quarter 2005 Laboratory Analytical Report



ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 928050. Samples arrived at the laboratory on Wednesday, January 12, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19-10 Grab Water Sample	4445698
MW-19-7 Grab Water Sample	4445699
MW-19-8 Grab Water Sample	4445700
DUP-01 Grab Water Sample	4445701
Trip Blank Water Sample	4445702

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

RMT, Inc.

1 COPY TO

Data Package Group

Attn: Mr. Nicholas J. Clevett



Analysis Report



Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

Millele M. Turner

Michele M. Turner Manager



Page 1 of 2

Lancaster Laboratories Sample No. WW 4445698

MW-19-10 Grab Water Sample L.E. Carpenter, NJ

Collected:01/12/2005 10:30

by EV

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:04

Discard: 02/26/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

1910L SDG#: LEC24-01

CAT		-	As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307		n.a.	29.	1.	cfu/ml	n.a.
	This result is an estimated co	ount. At least	one plate used	to calculate	, <u>-</u>	
	the result is outside the esta	blished counti	ng range of 30 t	o 300		
	colony forming units (cfu) per	dilution.				
	This comple was along the most	.		•		
00200	This sample was plated by Earl					
00200	pn	n.a.	7.1	0.010	Std.	1
	The 40 CFR Part 136 requires t	hat this analy	sis be performed	immediately	Units	
	(Within 15 minutes) upon sampl	e collection.	Because this was	s not possible.		
00201	the result may not be used for	reporting pur	poses.	•		
		n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	127.	0.41	mg/l as CaCO3	1 .
00206	Total Suspended Solids	n.a.	5.2 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	625.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	Ņ,D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	16.9	1.5	mg/l	5
00238	Free Carbon Dioxide	n.a.	20.2	0.41	mg/l	1
07105	Trained in transfer on the contract of					
0/105	Volatile Headspace Hydrocarbon				•	
07106	Methane	74-82-8	74.	2.0	úg/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/1	1
07109	Propane	74-98-6	3.5 J	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	•
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l ug/l	1
					→ , -	_



Base Neutrals (cont)



Page 2 of 2

Lancaster Laboratories Sample No. WW 4445698

MW-19-10 Grab Water Sample

L.E. Carpenter, NJ

Collected:01/12/2005 10:30

by EV

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:04

Discard: 02/26/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

1910L SDG#: LEC24-01

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit bis(2-Ethylhexyl)phthalate 00669 117-81-7 N.D. 1. ug/l 1

State of New Jersey Lab Certification No. PA011

	Laboratory	Chronicle
VI.		* ·

ZAT		•	-			
No.	Analysis Name			Analysis	•	Dilution
			rial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed	1	01/15/2005 15:05	Earl R Custer	n.a.
		1995				ш.а.
00200	рн	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	•
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/13/2005 21:53		<u> </u>
00202	Alkalinity to pH 4.5	EPA 310.1	7	01/13/2005 21:53		1
00206	Total Suspended Solids	EPA 160.2	1			1
00212	Total Dissolved Solids	EPA 160.1	4	01/14/2005 13:10		1
00219	Nitrite Nitrogen	EPA 353.2	_	01/14/2005 08:52		1
00220	Nitrate Nitrogen		Ţ	01/13/2005 16:12	2	1
00221	Ammonia Nitrogen	EPA 353.2	1	01/18/2005 15:00		1
00227		EPA 350.2	1	01/17/2005 14:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	01/18/2005 11:47	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	01/17/2005 16:07	Objection T. D. 1374	_
00238	Free Carbon Dioxide	SM-18 4500C02	7			5
07105	Volatile Headspace	SW-846 8015B, modified	-	01/13/2005 21:53		1
***	Hydrocarbon	Sw-046 BUISE, MODIFIED	1	01/14/2005 00:22	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	01/14/2005 02:27	K. Robert Caulfeild-	1
00554	Page Neutrolle (comb)				James	
	Base Neutrals (cont)	EPA 625	1	01/19/2005 13:20	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	01/13/2005 18:00		-
08263	Total Phos as P Prep (water)	EPA 365.1	1	01/17/2005 09:45		1



Page 1 of 2

Lancaster Laboratories Sample No. WW 4445699

MW-19-7 Grab Water Sample L.E. Carpenter, NJ

Collected:01/12/2005 11:55

by EV

Account Number: 09322

Submitted: 01/12/2005 19:20

Reported: 01/26/2005 at 14:05

Discard: 02/26/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

197LC SDG#: LEC24-02

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count T	n.a.	75.	1	cfu/ml	n.a.
	This sample was plated by Earl	Custer on 1-1:	3-05 by 1000.			
00200	рн	n.a.	6.8	0.010	Std. Units	1
	The 40 CFR Part 136 requires t (within 15 minutes) upon sampl the result may not be used for	e collection	Because this was	immediately not possible,		
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as	1
00202	Alkalinity to pH 4.5	n.a.	200.	0.41	CaCO3 mg/l as CaCO3	. 1
00206	Total Suspended Solids	n.a.	6.0 J	3.0	mg/1	1
00212	Total Dissolved Solids	n.a.	774.	19.4	mg/1	1
00219	Nitrite Nitrogen	14797-65-0	0.027 J	0.015	mg/1	1
00220	Nitrate Nitrogen	14797-55-8	3.2	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/1	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	29.1	1.5	mg/l	5
00238	Free Carbon Dioxide	n.a.	63.4	0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	10,000.	500.	ug/l	250
07107	Ethane	74-84-0	11.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	760.	1.2	ug/l	2
07029	Benzene	71-43-2	6.1	0.4	ug/1 ug/l	2
07030	Toluene	108-88-3	240.	0.4	ug/l ug/l	2
07031	Ethylbenzene	100-41-4	90.	0.4	ug/l ug/l	2
00554	Base Neutrals (cont)					
669	bis(2-Ethylhexyl)phthalate	117-81-7	Ň.Ď.	1.	· ug/l	1
				- -	~9/±	_





Page 2 of 2

Lancaster Laboratories Sample No. WW 4445699

MW-19-7 Grab Water Sample L.E. Carpenter, NJ

Collected:01/12/2005 11:55

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:05

Discard: 02/26/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

197LC

SDG#: LEC24-02

As Received

CAT

No. Analysis Name

As Received CAS Number Result

Method

Detection

Dilution Factor

Units

Limit

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT		•		Analysis		
	Analysis Name	Method 7	rial#		31	Dilution
0307	Heterotrophic Plate Count	Std Meth 9215B 19th ed			Analyst	Factor
		1995	÷	01/15/2005 15:05	Earl R Custer	n.a.
00200	рH	EPA 150.1	1	01/14/2005 20:00	tum M G - 55	
00201	Alkalinity to pH 8.3	EPA 310.1	-	01/14/2005 20:00	Luz M Groff	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/13/2005 21:53		1
00206	Total Suspended Solids	EPA 160.2	_	01/13/2005 21:53		1
00212	Total Dissolved Solids	EPA 160.1	1	01/14/2005 13:10	Anne L Kuenzli	1
00219	Nitrite Nitrogen		1	01/14/2005 08:52	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	01/13/2005 15:54	Kyle W Eckenroad	1
00221	Ammonia Nitrogen	EPA 353.2	1,	01/18/2005 15:02	Katherine D Webster	1
00221		EPA 350.2	1,	01/17/2005 14:00	Luz M Groff	1
	Total Phosphorus as P (water)	EPA 365.1	1	01/18/2005 11:48	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	01/17/2005 16:21	Shannon L Phillips	5 -
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/13/2005 21:53	Elaine F Stoltzfus	
07105	Volatile Headspace	SW-846 8015B, modified	ī	01/14/2005 00:34	Robert I Pusch	1
	Hydrocarbon					-
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	01/14/2005 19:34	Robert I Pusch	250
08238	BTEX (EPA 602)	EPA 602	1 .	01/14/2005 03:37	K. Robert Caulfeild-	2
00554	Base Neutrals (cont)	EPA 625	1.	01/19/2005 14:16	James	
08108	625 Water Extraction	EPA 625	ı	01/13/2005 14:16	Brian K Graham	1
08263	Total Phos as P Prep	EPA 365.1	1		Elia R Botrous	1
	(water)		1	01/17/2005 09:45	Choon Y Tian	1



Page 1 of 2

Lancaster Laboratories Sample No. 4445700

MW-19-8 Grab Water Sample L.E. Carpenter, NJ

Collected: 01/12/2005 15:35

by EV

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:05

RMT, Inc. PO Box 8923

Discard: 02/26/2005

Madison WI 53708-8923

198LC SDG#: LEC24-03

C3 m				As Received		
CAT No.	American de Arma		As Received	Method		Dilution
NO.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00200	рн	n.a.	7.0	0.010	Std. Vnits	1
	The 40 CFR Part 136 requires to	hat this analy	sis be performed	immediately	OHICS	
	(Within 15 minutes) upon sample	e collection.	Because this was	s not possible,		
00201	the result may not be used for Alkalinity to pH 8.3					
		n.a.	Ņ.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	142.	0.41	mg/l as CaCO3	1
0206	Total Suspended Solids	n.a.	25.2	3.0	mg/1	1
00212	Total Dissolved Solids	n.a.	1,150.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	0.016 J	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.18	0.080	mg/l	1
00228	Sulfate	14808-79-8	16.3	1.5	mg/1	5
00238	Free Carbon Dioxide	n.a.	28.4	0.41	mg/l	1
09001	See Comment Below	n.a.	N.D.	1.0		n.a.
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	510.	10.	ug/l	-
07107	Ethane	74-84-0	N.D.	1.0	ug/1	5
07108	Ethene	74-85-1	N.D.	1.0		1
07109	Propane	74-98-6	N.D.	1.0	ug/l ug/l	1 1
08238	BTEX (EPA 602)				-	
05538	Total Xylenes	1330-20-7	N.D.	0.6	(2	_
07029	Benzene	71-43-2	N.D.	0.6	ug/l	1
07030	Toluene	108-88-3	N.D.		ug/l	1
07031	Ethylbenzene	100-41-4	0.3 J	0.2	ug/l	1
		700-47-4	0.5	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011





Page 2 of 2

Lancaster Laboratories Sample No. 4445700

MW-19-8 Grab Water Sample L.E. Carpenter, NJ

Collected:01/12/2005 15:35

by EV

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:05

Discard: 02/26/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

198LC

Analysis Name

CAT No.

SDG#: LEC24-03

As Received

Method

Dilution

CAS Number Result

As Received

Detection Limit

Units Factor

Sample plates for both 4445700 and 4445701 were identified with the same sample

number. Colony counts obtained from each set were:

77 and 91, average 84 cfu

29 and 27, average 28 cfu (est)

This is an estimated count since one or more of the plates used in calculating the result was outside of the established counting range.

Laboratory Chronicle

		-aboracory	CITTO	117.07.6		
CAT			1	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00200	рн	EPA 150.1	1.	01/14/2005 20:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/13/2005 21:53	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/13/2005 21:53	Elaine F Stoltzfus	1
00206	Total Suspended Solids	EPA 160.2	1	01/14/2005 13:10	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	01/14/2005 08:52	Anne L Kuenzli	1.
00219	Nitrite Nitrogen	EPA 353.2	1	01/13/2005 15:55	Kyle W Eckenroad	1
00220	Nitrate Nitrogen	EPA 353.2	1	01/18/2005 15:03	Katherine D Webster	7
00221	Ammonia Nitrogen	EPA 350.2	1	01/17/2005 14:00	Luz M Groff	-
00227	Total Phosphorus as P (water)	EPA 365.1	1	01/18/2005 11:54	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	i	01/17/2005 16:36	Shannon L Phillips	5
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/13/2005 21:53	Elaine F Stoltzfus	<u>ج</u> 1
09001	See Comment Below	No reference	1	01/17/2005 12:45	Earl R Custer	n.a.
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	01/14/2005 00:46	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1 1	01/14/2005 19:45	Robert I Pusch	5
08238	BTEX (EPA 602)	EPA 602	1	01/14/2005 03:02	K. Robert Caulfeild- James	1
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 15:12		_
08108	625 Water Extraction	EPA 625	1	01/13/2005 18:12	Brian K Graham	1
08263	Total Phos as P Prep	EPA 365.1	1	· ·	Elia R Botrous	1
	(water)		+	01/17/2005 09:45	Choon Y Tian	1



Page 1 of 2

Lancaster Laboratories Sample No. WW 4445701

DUP-01 Grab Water Sample L.E. Carpenter, NJ

Collected: 01/12/2005

by EV

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:05

RMT, Inc. PO Box 8923

Discard: 02/26/2005

Madison WI 53708-8923

DU1LC SDG#: LEC24-04

No. Analysis Name CAS Number Result Detection Limit Limit Outies Pactor Outies Pactor Outies Pactor Outies Pactor Outies Pactor Outies Pactor Outies				"	As Received		
02200 pH				As Received	Method		Dilution
## The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes. ### Occupancy of the first order of the result may not be used for reporting purposes. ### Occupancy order of the result may not be used for reporting purposes. ### Occupancy order of the result may not be used for reporting purposes. ### Occupancy order o	NO.	Analysis Name	CAS Number	Result	the state of the s	Units	Factor
The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes. 00201 Alkalinity to pH 8.3	00200	рн	n.a.	6.8		ns á	_
The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes. Alkalinity to pH 8.3						7 7	1
(Within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes. 00201 Alkalinity to pH 8.3		The 40 CFR Part 136 requires t	hat this analy	sis be performed	immediately	011103	
00201 Alkalinity to pH 8.3		(Within 15 minutes) upon sample	e collection.	Recause this was	not possible,		
02022 Alkalinity to pH 4.5	0.0201	Alkalinity to pH 8 3					
Occopy			n.a.	N.D.	0.41	•	1
10206 Total Suspended Solids n.a. 7.2 J 3.0 mg/l 1	00202	Alkalinity to pH 4.5	n.a.	202.	0.41		,
1					***		<u> </u>
00219 Nitrite Nitrogen 14797-65-0 0.026 J 0.015 mg/1 1 00220 Nitrate Nitrogen 14797-55-8 3.2 0.040 mg/1 1 00221 Ammonia Nitrogen 7664-41-7 N.D. 0.11 mg/1 1 00227 Total Phosphorus as P (water) 7723-14-0 N.D. 0.080 mg/1 1 00228 Sulfate 14808-79-8 30.5 1.5 mg/1 5 00238 Free Carbon Dioxide n.a. 64.0 0.41 mg/1 1 09001 See Comment Below n.a. N.D. 1.0 n.a. 07105 Volatile Headspace Hydrocarbon 07106 Methane 74-82-8 11,000. 500. ug/1 250 07107 Ethane 74-84-0 9.9 1.0 ug/1 1 07108 Ethene 74-85-1 N.D. 1.0 ug/1 1 07109 Propane 74-98-6 N.D. 1.0 ug/1 1 08238 BTEX (EFA 602) 05538 Total Xylenes 1330-20-7 380. 0.6 ug/1 1 07029 Benzene 71-43-2 2.9 <td< td=""><td></td><td></td><td>n.a.</td><td>7.2 J</td><td>3.0</td><td>mg/l</td><td>1</td></td<>			n.a.	7.2 J	3.0	mg/l	1
00220 Nitrate Nitrogen 14797-55-8 3.2 0.040 mg/l 1 00221 Ammonia Nitrogen 7664-41-7 N.D. 0.11 mg/l 1 00227 Total Phosphorus as P (water) 7723-14-0 N.D. 0.080 mg/l 1 00228 Sulfate 14808-79-8 30.5 1.5 mg/l 5 00238 Free Carbon Dioxide n.a. 64.0 0.41 mg/l 1 09001 See Comment Below n.a. N.D. 1.0 ug/l 1 07105 Volatile Headspace Hydrocarbon 07106 Methane 74-82-8 11,000. 500. ug/l 250 07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 08238 BTEX (EFA 602) 10 ug/l 1 1 07030 Toluene 108-88-3 120. 0.2 </td <td></td> <td></td> <td></td> <td>754.</td> <td>19.4</td> <td>mg/l</td> <td>1</td>				754.	19.4	mg/l	1
100221 Ammonia Nitrogen 7664-41-7 N.D. 0.11 mg/1 1 1 1 1 1 1 1 1 1			· ·	0.026 J	0.015	mg/l	1
00227 Total Phosphorus as P (water) 7723-14-0 N.D. 0.080 mg/l 1 00228 Sulfate 14808-79-8 30.5 1.5 mg/l 5 00238 Free Carbon Dioxide n.a. 64.0 0.41 mg/l 1 09001 See Comment Below n.a. N.D. 1.0 mg/l 1 07105 Volatile Headspace Hydrocarbon 74-82-8 11,000. 500. ug/l 250 07106 Methane 74-82-8 11,000. 500. ug/l 1 07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-85-1 N.D. 1.0 ug/l 1 08238 BTEX (EPA 602)		3 '	14797-55-8	3.2	0.040	mg/l	1
00227 Total Phosphorus as P (water) 7723-14-0 N.D. 0.080 mg/l 1 00228 Sulfate 14808-79-8 30.5 1.5 mg/l 5 00238 Free Carbon Dioxide n.a. 64.0 0.41 mg/l 1 09001 See Comment Below n.a. N.D. 1.0 ug/l 1 07105 Volatile Headspace Hydrocarbon		-	7664-41-7	N.D.	0.11	mg/1	1
00228 Sulfate 14808-79-8 30.5 1.5 mg/l 5 00238 Free Carbon Dioxide n.a. 64.0 0.41 mg/l 1 09001 See Comment Below n.a. N.D. 1.0 mg/l 1 09001 Volatile Headspace Hydrocarbon 07106 Methane 74-82-8 11,000. 500. ug/l 250 07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 08238 BTEX (EPA 602) 05538 Total Xylenes 1330-20-7 380. 0.6 ug/l 1 07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)				N.D.	0.080	mg/l	
00238 Free Carbon Dioxide n.a. 64.0 0.41 mg/l l n.a. 09001 See Comment Below n.a. N.D. 1.0 n.a. 07105 Volatile Headspace Hydrocarbon 07106 Methane 74-82-8 11,000. 500. ug/l 250 ug/l 1 07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 08238 ETEX (EPA 602) 05538 Total Kylenes 1330-20-7 380. 0.6 ug/l 1 07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)			14808-79-8	30.5	1.5	-	
09001 See Comment Below n.a. N.D. 1.0 n.a. 07105 Volatile Headspace Hydrocarbon 07106 Methane 74-82-8 11,000. 500. ug/l 250 07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 08238 BTEX (EPA 602) 05538 Total Xylenes 1330-20-7 380. 0.6 ug/l 1 07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)			n,a,	64.0	0.41		
07106 Methane 74-82-8 11,000. 500. ug/l 250 07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 08238 ETEX (EPA 602) 05538 Total Xylenes 1330-20-7 380. 0.6 ug/l 1 07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1	09001	See Comment Below	n.a.	N.D.	1.0	. •	**
07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 08238 BTEX (EPA 602) 05538 Total Xylenes 1330-20-7 380. 0.6 ug/l 1 07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)	07105	Volatile Headspace Hydrocarbon					
07107 Ethane 74-84-0 9.9 1.0 ug/l 1 07108 Ethene 74-85-1 N.D. 1.0 ug/l 1 07109 Propane 74-98-6 N.D. 1.0 ug/l 1 08238 BTEX (EPA 602) 05538 Total Xylenes 1330-20-7 380. 0.6 ug/l 1 07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)	07106	Methane	74-82-8	11 000	E00	/3	
07108 Ethene 74-85-1 N.D. 1.0 ug/1 1	07107	Ethane	74-84-0	•		-	
07109 Propane 74-98-6 N.D. 1.0 ug/1 1 08238 BTEX (EPA 602) 05538 Total Xylenes 1330-20-7 380. 0.6 ug/1 1 07029 Benzene 71-43-2 2.9 0.2 ug/1 1 07030 Toluene 108-88-3 120. 0.2 ug/1 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/1 1 00554 Base Neutrals (cont)	07108	Ethene				-	
08238 BTEX (EPA 602) 05538 Total Xylenes	07109	Propane	-			-	
05538 Total Xylenes 1330-20-7 380. 0.6 ug/l 1 07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)		-	74 50 0	и	1.0	ug/1	1
07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)	08238	BTEX (EPA 602)					
07029 Benzene 71-43-2 2.9 0.2 ug/l 1 07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)	05538	Total Xylenes	1330-20-7	380	0.6	/2	
07030 Toluene 108-88-3 120. 0.2 ug/l 1 07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)	07029	Benzene					
07031 Ethylbenzene 100-41-4 45. 0.2 ug/l 1 00554 Base Neutrals (cont)	07030	Toluene			=	•	
00554 Base Neutrals (cont) 00669 bis(2-Ethylhexyl)phthalate 117-81-7	07031	Ethylbenzene				-	
00669 bis(2-Ethylhexyl)phthalate 117-01-7 x p		·-			0.2	π a /τ	1
00669 bis(2-Ethylhexyl)phthalate 117-81-7 N.D.	00554	Base Neutrals (cont)					
	00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011





Page 2 of 2

Lancaster Laboratories Sample No. WW 4445701

DUP-01 Grab Water Sample L.E. Carpenter, NJ

Collected: 01/12/2005

by EV

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:05

Discard: 02/26/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

DUILC SDG#: LEC24-04

CAT No.

Analysis Name

CAS Number

As Received Result

As Received

Method

Dilution Units

Detection Limit

Factor

Sample plates for both 4445700 and 4445701 were identified with the same sample number. Colony counts obtained from each set were:

77 and 91, average 84 cfu

29 and 27, average 28 cfu (est)

This is an estimated count since one or more of the plates used in calculating the result was outside of the established counting range.

Laboratory Chronicle

~		= aporacory	CIIIC	111016		
CAT				Analysis	-	Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00200	pH	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/13/2005 21:53	Elaine F Stoltzfus	
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/13/2005 21:53	Elaine F Stoltzfus	i
00206	Total Suspended Solids	EPA 160.2	1	01/14/2005 13:10	Anne L Kuenzli	-
00212	Total Dissolved Solids	EPA 160.1	1	01/14/2005 08:52	Anne L Kuenzli	
00219	Nitrite Nitrogen	EPA 353.2	ī	01/13/2005 15:57	Kyle W Eckenroad	1
00220	Nitrate Nitrogen	EPA 353.2	,	01/18/2005 15:04	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	01/17/2005 14:00		1
00227	Total Phosphorus as P	EPA 365.1	1	01/18/2005 11:55	Luz M Groff	1
	(water)	22 303.2	_	01/18/2005 11:55	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	01/17/2005 17:19	Shannon L Phillips	5
00238	Free Carbon Dioxide	SM-18 4500CO2	i	01/13/2005 21:53	Elaine F Stoltzfus	1
09001	See Comment Below	No reference	i.	01/17/2005 12:45	Earl R Custer	n.a.
07105	Volatile Headspace	SW-846 8015B, modified	1 1	01/14/2005 00:57	Robert I Pusch	11.61.
	Hydrocarbon	,	_	,,,,,,,,,,	MODELE I FUSCII	_
07105	Volatile Headspace	SW-846 8015B, modified	1 1	01/14/2005 19:57	Robert I Pusch	250
	Hydrocarbon			.,,	110001	230
08238	BTEX (EPA 602)	EPA 602	1	01/14/2005 04:13	K. Robert Caulfeild-	1
					James	•
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 16:08	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	01/13/2005 18:00	Elia R Botrous	1
08263	Total Phos as P Prep	EPA 365.1	1	01/17/2005 09:45	Choon Y Tian	<u>.</u>
	(water)	•	-	02/2//2005 09.45	Choon I IIan	T



Page 1 of 1

Lancaster Laboratories Sample No. WW 4445702

Trip Blank Water Sample L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 01/12/2005 19:20 Reported: 01/26/2005 at 14:05

Discard: 02/26/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

TBLLC SDG#: LEC24-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)	•				
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/1	1

State of New Jersey Lab Certification No. PA011

Labo	rat	ÓTT	Chron	d la i
nanc	ı a L	OI V	CHICH	ICLE

C11 m		= aboracory	CITTOTITCE				
CAT No. 08238	Analysis Name BTEX (EPA 602)	Method EPA 602	Trial# 1	Analysis Date and Time 01/14/2005 01:52	Analyst K. Robert Caulfeild- James	Dilution Factor	



Page 1 of 4

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928050

Reported: 01/26/05 at 02:05 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05012A36A	Sample	number(s):	4445698-44	45702		•		
Total Xylenes	N.D.	0.6	ug/l	100	95	82-120	5	30
Benzene	N.D.	0.2	ug/1	95	89	79-123	6	30
Toluene	N.D.	0.2	ug/l	106	100	82-119	5	30
Ethylbenzene	N.D.	0.2	ug/l	105	99	81-119	5	30
Batch number: 050130020A	Sample	number(s):	4445698-44	45701				
Methane	N.D.	2.0	ug/l	100		80-120		
hane	N.D.	1.0	ug/1	103		80-120		
hene	N.D.	1.0	ug/l	103		80-120		
Propane	N.D.	1.0	ug/l	110		80-120		
Batch number: 05013020202A	Sample	number/a).	4445698-44	45701				
Alkalinity to pH 4.5	oumpre :	ramber (s):	****	100				
				100		98-103		
Batch number: 05013105101A	Sample 1	number(s):	4445698-44	45701		•		
Nitrite Nitrogen	N.D.	0.015	mg/l	98		89-110		
Batch number: 05013WAB625	Sample 1	number(s):	4445698-44	45701				
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	.97		68-111		
Batch number: 05014020001A	Sample	nimher(a) •	4445698-44	15701				
pH	oumpro 1	idaber (5).	44400000444	100		** **		
•				100		99-101		
Batch number: 05014020601A			4445698-44	15701				•
Total Suspended Solids	N.D.	3.0	mg/l	81		55-132		
Batch number: 05014021201A	Sample n	umber(s):	4445698-444	15701				
Total Dissolved Solids	N.D.	9.7	mg/l	102		80-120		•
Batch number: 05017022101A	Sample n	umber(a).	4445698-444	5701				
Ammonia Nitrogen	N.D.	011	mg/1	97		01 100		
· · · · · · · · · · · · · · · · · · ·		V	g/ 1	<i>31</i>		91-100		
Batch number: 05017109101B	Sample n	umber(s):	4445698-444	5701				
Total Phosphorus as P (water)	N.D.	0.080	mg/l	9.5		89-110		
Batch number: 05017401301A	Sample n	umber(s):	4445698-444	5701				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

The background result was more than four times the spike added.





Page 2 of 4

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928050

Reported: 01/26/05 at 02:05 PM

Laboratory Compliance Quality Control

Analysis Name Sulfate	Blank Result N.D.	Blank MDL 0.30	Report <u>Units</u> mg/l	LCS %REC 100	LCSD %REC	LCS/LCSD <u>Limits</u> 89-110	RPD	RPD Max
Batch number: 05018106103B Nitrate Nitrogen	Sample no	umber(s): 0.040	4445698-44 mg/l	45701 102		89-110		

Sample Matrix Quality Control

Analysis Name	MS ABBC	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
7	BREC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 05012A36A	Samole	ייייייייייייייייייייייייייייייייייייייי	(s): 444569	00 4445	702				
Total Xylenes	105		78-130	70-4445	702 .				
Benzene	96		78-131						
Toluene	106		78-129						
Ethylbenzene	108		75-133				2		
eatch number: 050130020A	Samole	number	(B): 444569	0 4445	703				
thane	98	93	74-123	3					
athane	105	102	75-121	3	20 20				
Ethene	107	103	78-121	3	_ •				
Propane	114	110	62-125	4	20				
•		110	62-125	4	20				•
Batch number: 05013020202A	Sample	number	(s): 444569	8-44457	701				
Alkalinity to pH 8.3			(5). 111505	0.4443	, O ±	N.D.		a (=)	_
Alkalinity to pH 4.5	101	100	64-130	1	2	N.D. 127.	N.D.	0 (1)	4
			04 150	+	2	127.	127.	0	4
Batch number: 05013105101A	Sample	number	(s): 444569	8-44455	101				
Nitrite Nitrogen	118*		90-110	0-4445/	.01	5.0		_	
			70 110			5.0	5.1	2	20
Batch number: 05013WAB625	Sample	number	(s): 444569	9-44457	201				
bis(2-Ethylhexyl)phthalate	98	98	69-111	0 - 4443/	30				
· · · · ·			77 111	v	30				
Batch number: 05014020001A	Sample	number	(s): 444569	8-44457	01				
рн			(5). 11150)	0-4443/	01	7.0	~ ^		
						7.0	7.0	0	ļ
Batch number: 05014020601A	Sample	number	(s): 444569	9-11157					
Total Suspended Solids			D/. 444309	0-4443/	UI.	1 100			
-						1,120.	1,130.	1 (1)	24
Batch number: 05014021201A	Sample	number	s): 444569	0 44455	^-				
Total Dissolved Solids	98	94	60-140	0-4445/ 2					
	20	24	60-140	4	5	1,200.	1,170.	2	5
Batch number: 05017022101A	Sample	niimbor/	B): 4445698						
Ammonia Nitrogen	49*	53*	64-128						
	4J	23-	04-178	1	8	98,300.	97,200.	1	2
Batch number: 05017109101B	Samol o	numbo-/	~\: 44455A						
	adminte	THUMBER (s): 4445698	5-44457	OI				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

The background result was more than four times the spike added.





Page 3 of 4

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928050

Reported: 01/26/05 at 02:05 PM

Sample Matrix Quality Control

Analysis Name Total Phosphorus as P (water)	MS %REC 100	MSD TREC	MS/MSD Limits 90-110	RPD	RPD MAX	BKG Conc N.D.	Conc N.D.	DUP RPD 0 (1)	Dup RPD Max
Batch number: 05017401301A Sulfate	Sample 100	number	(s): 4445698 90-110	8-44457	Ö1	27.9	27.0	3	3
Batch number: 05018106103B Nitrate Nitrogen	Sample 116*	number ((s): 4445698 90-110	3-44457	01	0.093 J	0.099 J	6* (1)	2

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)

Batch number: 05012A36A

Trifluorotoluene-P

4445701 4445702	99		
Blank LĆS	101 102		
LCSD	101		·
MS	101		

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 050130020A

Propene

4445698	86
4445699	80
4445700	90
4445701	84
Blank	96
LCS	97
MS	93
MSD	93

Limits: 64-126

Analysis Name: Base Neutrals Batch number: 05013WAB625

Nitrobenzene-d5

2-Fluorobiphenyl

Terphenyl-d14

*- Outside of specification

The result for one or both determinations was less than five times the LOQ.
 The background result was more than four times the spike added.



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681



Page 4 of 4

Quality Control Summary

Client Name: RMT, Inc.

Reported: 01/26/05 at 02:05 PM

Group Number: 928050

Surrogate Quality Control

Limits:	48-117	62-111	45-132	
		88	89	
MSD	88			
MS	89	85	85	
LCS	87	90	.90	
		92	90	
Blank	. 80		84	
4445701	83	91		
4445700	82	89	84	
		89	88	•
4445699	82		•	
4445698	83	92	86	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

The background result was more than four times the spike added.



Analysis Request, Environmental Services Chain of Custody



For Lancaster Laboratories use only 428050 Sample # 444568-202 COC # 0079137

<u>(1)</u>			Pi	ease print. Instru	ctions on	reverse s	ide com	spond	with ci	rcled n	ümbei	18;							
Client: R N Project Name Project Manag Sampler:	#: <u>(o5</u> 2 ger: <u>N. (</u>	7-10 Jevett	Acct. #; PWSiD P.O.#:	#:			•		(5)	Alta					/s, b)		FSC:	ab Use #://9	Only 6
1		s were collected:	Quote #	1	3			/		/ } \$\\&\}		87. 67.	18/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	777				
-	MW-19-17 HW-19- MW-19- DUP-0	7. 8	1-12-05 1-12-05 1-12-05	10 300 11 55	×	X	14	\	X	X,	X	XX		X	X 	SPC hold	24 1	e .	
JAI	Trip 8					X	3						Lore			<u> </u>			
(Rush TAT is su Date results a Rush results n Phone #:	ibject to Lancast re needed: equested by (p e-975-5	lease circle): Ph	one Fax	E-mail	1	quished t	8.11	h		/ <i>[</i>	Pate Pate	Time	4_			6		Date	Time (9
	Options (plea Type \ GLP	se circle if required) // (Raw Data) Site-specific QC	SD0 Ye required? Yes	G Complete? s No	Reling	m		1	12/90		Received by:					Time Time			
Type IV (CLP)	ed. Del.)	(if yes, indicate QC sa internal Chain of			Relino	uished b	y:			0	ate	Time	Rec	eived CSC,	l by:	B		Date	Time F12



ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 928231. Samples arrived at the laboratory on Thursday, January 13, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19-19D Grab Water Sample	4446783
MW-19-1 Unspiked Grab Water Sample	4446784
MW-19-1 Matrix Spike Grab Water Sample	4446785
MW-19-1 Matrix Spike Dup/Dup Grab Water Sample	4446786
Trip Blank Water Sample	4446787
ATM Blank Grab Water Sample	4446788

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

RMT, Inc.

1 COPY TO

Data Package Group

Attn: Mr. Nicholas J. Clevett





Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

Diane L. Lockard

Senior Microbiologist, Coordinator



Lancaster Laboratories Sample No. WW 4446783

MW-19-19D Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 09:20

by EV

Account Number: 09322

Submitted: 01/13/2005 19:00 Reported: 01/28/2005 at 10:23

RMT, Inc. PO Box 8923

Discard: 02/28/2005

Madison WI 53708-8923

1919D SDG#: LEC24-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538 07029 07030 07031	Total Xylenes Benzene Toluene Ethylbenzene	1330-20-7 71-43-2 108-88-3 100-41-4	N.D. N.D. N.D. N.D.	0.6 0.2 0.2 0.2	ug/l ug/l ug/l ug/l	1 1 1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	1, J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

		Laborato	ory Chro	nicle		
CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	01/14/2005 22:36	K. Robert Caulfeild- James	
00554 08108	Base Neutrals (cont) 625 Water Extraction	EPA 625 EPA 625	1	01/19/2005 09:39 01/15/2005 10:45	Brian K Graham Andrew G Newton	1 1



Lancaster Laboratories Sample No. 4446784

MW-19-1 Unspiked Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 14:45

by EV

Account Number: 09322

Submitted: 01/13/2005 19:00 Reported: 01/28/2005 at 10:23

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 02/28/2005

19XX1

SDG#: LEC24-09BKG

CAT			As Received	As Received Method		
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Dilution Factor
0,0307	Heterotrophic Plate Count	n.a.	43.	1.	cfu/ml	n.a.
	Mold growth was observed on one	e or more of the	ne plates used in	the enumeration.		
	The sample was plated by Earl (Custer on 1-14-	05 by 0845.		•	
00200	рĤ	n.a. '	7.0	0.010	Std. Units	1
	The 40 CFR Part 136 requires the (within 15 minutes) upon sample the result may not be used for	collection.	Because this was	immediately not possible,	OHIES	
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	152.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/1	1
00212	Total Dissolved Solids	n.a.	404.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	2.1	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	ī
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1 .
00228	Sulfate	14808-79-8	27.9	1.5	mg/l	5
00238	Free Carbon Dioxide	n.a.	30.4	0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.Ď.	20	(7	_
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	1.5 J	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1 .
	- "			Ţ.W	ug/l	1
08238	BTEX (EPA 602)		\$			
05538	Total Xýlenes	1330-20-7	N.D.	0.6	/2	_
07029	Benzene	71-43-2	N.D.	0.0	ug/l	,1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
٤			N.D.	0.2	ug/l	1

00554

Base Neutrals (cont)





Lancaster Laboratories Sample No. WW 4446784

MW-19-1 Unspiked Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 14:45

by EV

Account Number: 09322

Submitted: 01/13/2005 19:00 Reported: 01/28/2005 at 10:23

RMT, Inc. PO Box 8923

Discard: 02/28/2005

Madison WI 53708-8923

19XX1 SDG#: LEC24-09BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
00669	bis(2-Ethylhexyl)phthalate	117-81-7	4. ј	Limit	ug/1	1

State of New Jersey Lab Certification No. PA011

Laboratory (71
Habbrat orv t	
	ノミュエ ひょくエ ひ エ こ

Analysis Name	Mothed _		-		Dilution
				Analyst	Factor
necesotrophic Flate Count	Std Meth 9215B 19th ed	1	01/17/2005 09:00	Earl R Custer	n.a.
рн		1	01/14/2005 20.00	T M. 6' . 60	
Alkalinity to pH 8.3	=	•			1
Alkalinity to pH 4.5		1			1
Total Suspended Solide		1		Elaine F Stoltzfus	1
Total Dissolved Solids	- · ·	1		Anne L Kuenzli	1
		1	01/18/2005 07:40	Anne L Kuenzli	1
Micrate Microgen	•	1	01/15/2005 09:55	Kyle W Eckenroad	1
Nitrate Nitrogen		1	01/24/2005 11:09		7
Ammonia Nitrogen	EPA 350.2	1			
	EPA 365.1	1			1
•			, = , = , = , = ,	wicore w kepiey	#
	EPA 300.0	1	01/17/2005 17:40	Champer I Blillia	_
Free Carbon Dioxide	SM-18 4500CO2	1		SHARRON L PRITTIPS	5
Volatile Headspace		1			1
	on oto ootob, modified	1	01/1//2005 22:05	Robert I Pusch	1
	EPA 602	7	01/14/0005		
	002	÷	01/14/2005 17:54		1
Base Neutrals (cont)	EDX 625	_			
	·	1		Brian K Graham	1 .
		1		Andrew G Newton	1
	EPA 365.1	1	01/17/2005 10:55	Choon Y Tian	1
	Analysis Name Heterotrophic Plate Count PH Alkalinity to pH 8.3 Alkalinity to pH 4.5 Total Suspended Solids Total Dissolved Solids Nitrite Nitrogen Nitrate Nitrogen Ammonia Nitrogen Total Phosphorus as P (water) Sulfate Free Carbon Dioxide Volatile Headspace Hydrocarbon BTEX (EPA 602) Base Neutrals (cont) 625 Water Extraction Total Phos as P Prep (water)	Analysis Name Heterotrophic Plate Count Std Meth 9215B 19th ed 1995 PH	### Analysis Name Heterotrophic Plate Count Std Meth 9215B 19th ed 1 1995	Heterotrophic Plate Count Std Meth 9215B 19th ed 1 1995 pH EPA 150.1 1 01/14/2005 20:00 Alkalinity to pH 8.3 EPA 310.1 1 01/17/2005 18:32 Alkalinity to pH 4.5 EPA 310.1 1 01/17/2005 18:32 Total Suspended Solids EPA 160.2 1 01/18/2005 16:59 Total Dissolved Solids EPA 160.1 1 01/18/2005 07:40 Nitrite Nitrogen EPA 353.2 1 01/18/2005 09:55 Nitrate Nitrogen EPA 353.2 1 01/15/2005 09:55 Nitrate Nitrogen EPA 350.2 1 01/18/2005 11:09 Ammonia Nitrogen EPA 365.1 1 01/18/2005 12:14 (water) Sulfate EPA 300.0 1 01/17/2005 12:14 Free Carbon Dioxide SM-18 4500Co2 1 01/17/2005 18:32 Volatile Headspace SW-846 8015B, modified 1 01/17/2005 22:05 Hydrocarbon BTEX (EPA 602) EPA 625 1 01/18/2005 10:45 Total Phos as P Prep EPA 365.1 1 01/18/2005 10:45 Total Phos as P Prep EPA 365.1 1 01/18/2005 10:45 Total Phos as P Prep EPA 365.1 1 01/17/2005 10:45 Total Phos as P Prep	## Analysis Name Heterotrophic Plate Count Std Meth 9215B 19th ed 1



Lancaster Laboratories Sample No. WW 4446785

MW-19-1 Matrix Spike Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 14:45

by EV

Account Number: 09322

Submitted: 01/13/2005 19:00 Reported: 01/28/2005 at 10:23

RMT, Inc. PO Box 8923

Discard: 02/28/2005

Madison WI 53708-8923

19XX1 SDG#: LEC24-09MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
00219	Nitrite Nitrogen	14797-65-0	0.22	Limit 0.015	mg/1	1
00220	Nitrate Nitrogen	14797-55-8	2.8	0.040	mg/1	÷ 1
00221	Ammonia Nitrogen	7664-41-7	14.0	0.11	mg/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	63.	0.6	ug/1	1
07029	Benzene	71-43-2	20.	0.2	ug/l	1
07030	Toluene	108-88-3	22.	0.2	ug/1 ug/1	1
07031	Ethylbenzene	100-41-4	22.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	100.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

		naporacor	y Chro	uicie		
CAT No.	Analysis Name	Method		Analysis		Dilution
			Trial#	Date and Time	Analyst	Factor
00219	Nitrite Nitrogen	EPA 353.2	1	01/15/2005 09:56	Kyle W Eckenroad	1
00220	Nitrate Nitrogen	EPA 353.2	1	01/24/2005 11:12		±
00221	Ammonia Nitrogen	EPA 350.2	-		Nicole M Kepley	1
		-	1	01/18/2005 14:30	Luz M Groff	1
08238	BTEX (EPA 602)	EPA 602	1	01/14/2005 18:29	K. Robert Caulfeild-	1
00554	Base Neutrals (cont)				James	
	, ,	EPA 625	1	01/18/2005 23:14	Brian K Graham	1
08108	625 Water Extraction	EPA 625	'n	01/15/2005 10:45	Andrew C Novitor	<u>.</u>



Lancaster Laboratories Sample No. WW 4446786

MW-19-1 Matrix Spike Dup/Dup Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 14:45

by EV

Account Number: 09322

Submitted: 01/13/2005 19:00

RMT, Inc. PO Box 8923

Reported: 01/28/2005 at 10:23

Madison WI 53708-8923

Discard: 02/28/2005

19XX1 SDG#: LEC24-09MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
00219 00220 00221 08238	Nitrite Nitrogen Nitrate Nitrogen Ammonia Nitrogen BTEX (EPA 602)	14797-65-0 14797-55-8 7664-41-7	N.D. 3.0 14.0	1.imit 0.015 0.040 0.11	mg/l mg/l mg/l	1 1 1
05538 07029 07030 07031	Total Xylenes Benzene Toluene Ethylbenzene Base Neutrals (cont)	1330-20-7 71-43-2 108-88-3 100-41-4	64. 20. 23. 23.	0.6 0.2 0.2 0.2	ug/l ug/l ug/l ug/l	1 1 1
00669	bis(2-Ethylhexyl)phthalate	117-81-7	98.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

No. 00219 00220 00221 08238	Analysis Name Nitrite Nitrogen Nitrate Nitrogen Ammonia Nitrogen BTEX (EPA 602)	Method EPA 353.2 EPA 353.2 EPA 350.2 EPA 602	1	Analysis Date and Time 01/15/2005 09:57 01/24/2005 11:13 01/18/2005 14:30	Analyst Kyle W Eckenroad Nicole M Kepley Luz M Groff	Dilution Factor 1 1
00554 08108	Base Neutrals (cont) 625 Water Extraction	EPA 625 EPA 625	1	01/14/2005 19:05 01/19/2005 00:10 01/15/2005 10:45	K. Robert Caulfeild- James Brian K Graham Andrew G Newton	1 1 1



Lancaster Laboratories Sample No. WW 4446787

Trip Blank Water Sample L.E. Carpenter, NJ

Collected: n.a.

Submitted: 01/13/2005 19:00 Reported: 01/28/2005 at 10:23

Discard: 02/28/2005

•

Account Number: 09322

RMT, Inc. PO Box 8923

Madison WI 53708-8923

113TB SDG#: LEC24-10TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538 07029 07030 07031	Total Xylenes Benzene Toluene Ethylbenzene	1330-20-7 71-43-2 108-88-3 100-41-4	N.D. N.D. N.D. N.D.	0.6 0.2 0.2 0.2	ug/l ug/l ug/l ug/l	1 1 1

State of New Jersey Lab Certification No. PA011

Labora	tory	Chron	iaia
		V. [T () []	

CAT		Haboracory	CHIOUTCIE		
No. 08238	Analysis Name BTEX (EPA 602)	Method EPA 602	Analysis Trial# Date and Time 1 01/14/2005 21:26	Ańalyst K. Robert Caulfeild- James	Dilution Factor



Lancaster Laboratories Sample No. WW 4446788

ATM Blank Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 15:50

by EV

Account Number: 09322

Submitted: 01/13/2005 19:00 Reported: 01/28/2005 at 10:23

RMT, Inc. PO Box 8923

Discard: 02/28/2005

Madison WI 53708-8923

AMBLK SDG#: LEC24-11

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method Detection	Units	Dilution Factor
00307	Watership Division			Limit	Units	Factor
00307	arrest Prize Trace Codité	n.a.	> 5700.	1.	cfu/ml	n.a.
	This result is an estimated co	unt. At least	one plate used	to calculate		
	the result is outside the esta colony forming units (cfu) per	Dished counting	ng range of 30 to	o 300		
	colory rounding united (clu) per	dilucion.				
	The sample was plated by Earl	Custer on 1-14-	-05 by 0845.			
00200	Hq	n.a.	5.5	0.010	Std.	1
\	The 40 GPD Day 1 and		· ·		Units	.1
	The 40 CFR Part 136 requires the state of th	hat this analys	is be performed	immediately		
	(within 15 minutes) upon sample the result may not be used for	reporting nurr	Because this was	s not possible,		
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as	1
00202	71 ha 1 fact to 1		,	****	CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	N.D.	0.41	mg/l as	1
00206	Total Suspended Solids	n.a.	. N. D.		CaCO3	
00212		n.a.	N.D. N.D.	3.0	mg/l	ļ
00219		14797-65-0	N.D.	9.7	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.015	mg/l	1
00221		7664-41-7	N.D.	0.040	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.11 0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	0.30	mg/l	- 1
00238	Free Carbon Dioxide	n.a.	N.D.	0.41	mg/l	1
				0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	10	ug/l	ī
08238	BTEX (EPA 602)				-	
00230	DIEA (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.			
07029	Benzene	71-43-2	N.D.	0.6	ug/l	1
07030	Toluene	108-88-3	N.D.	0:2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2 0.2	ug/l	1
		====	41.4 20 4	0.2	ug/l	1
00554	Base Neutrals (cont)					
_						





Lancaster Laboratories Sample No. 4446788

ATM Blank Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 15:50

by EV

Account Number: 09322

Submitted: 01/13/2005 19:00

Reported: 01/28/2005 at 10:23

Discard: 02/28/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

SDG#: LEC24-11 AMBLK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00669	bis(2-Ethylhexyl)phthalate	117-81-7	Ń.D.	1.	ug/l	í

State of New Jersey Lab Certification No. PA011

CAT				Analysis		Dilution
No.	Analysis Name		rial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	01/17/2005 09:00	Earl R Custer	n.a.
00200	pН	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/17/2005 18:32		1
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/17/2005 18:32		7
00206	Total Suspended Solids	EPA 160.2	1	01/18/2005 16:59		1
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2005 07:40		1
00219	Nitrite Nitrogen	EPA 353.2	1	01/15/2005 09:58		1
00220	Nitrate Nitrogen	EPA 353.2	1	01/24/2005 11:14	Nicole M Kepley	7
00221	Ammonia Nitrogen	EPA 350.2	1	01/18/2005 14:30		1
00227	Total Phosphorus as P (water)	EPA 365.1	1.	01/18/2005 12:17	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	01/19/2005 13:35	Shannon L Phillips	1
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/17/2005 18:32		1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	01/20/2005 14:24		1
08238	BTEX (EPA 602)	EPA 602	,1	01/14/2005 22:01	K. Robert Caulfeild- James	1
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 10:34		
08108	625 Water Extraction	EPA 625	1	01/15/2005 10:45		1
08263	Total Phos as P Prep (water)	EPA 365.1	1	01/17/2005 10:55	Choon Y Tian	1



Quality Control Summary

Client Name: RMT, Inc.

Reported: 01/28/05 at 10:23 AM

Group Number: 928231

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05014020001A	Sample	number(s):	4446784,44	146788				
Н		,		100		99-101		
Batch number: 05014A36A	Sample	number(s).	4446783-44	146799				
Total Xylenes	N.D.	0.6	ug/1	99		00 100		
Benzene	N.D.	0.2	ug/l	93		82-120		
Toluene	N.D.	0.2	ug/l	105		79-123		
Ethylbenzene	N.D.	0.2	ug/l			82-119		
		0.2	ug/1	104		81-119		
Batch number: 05014WAF625	Sample	number(s):	4446783-44	46786 444	46788			
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/1	96	40700	60 111		
•			ug/ I	30		68-111		
Batch number: 05015105103A	Sample	number(s):	4446784-44	46786 444	46788			
Nitrite Nitrogen	N.D.		mg/l	99	10700	89-110		
			9/	<i></i>		09-110		
Batch number: 050170031A	Sample	number(s):	4446784					
Methane	N.D.	2.0	ug/l	95		00.100		
Ethane	N.D.	10	ug/l	97		80-120		
Ethene	N.D.	1.0	ug/l	100		80-120		
Propane	N.D.	1.0	ug/l	103		80-120		
•			49/1	103		80-120		
Batch number: 05017020201A	Sample	number(s):	4446784,44	46788				
Alkalinity to pH 4.5			3330103143	100		00 100		
				100		98-103		
Batch number: 05017109102A	Sample	number(s)	4446784,44	16700				
Total Phosphorus as P (water)	N.D.	0.080		94		00 110		
		0,000	mg/ I	. 34		89-110		
Batch number: 05017401301A	Sample	number(s):	4446784					
Sulfate	N.D.	0.30	mg/l	100				
		0.00	mg/ I	100		89-110		
Batch number: 05018020601A	Sample	numher(s) •	4446784,444	46700				
Total Suspended Solids	N.D.	3.0	mg/l	77				
•	,	3.0	mg/1	7.7		55-132		
Batch number: 05018021201A	Sample	number(e)	4446784,444	46700				
Total Dissolved Solids	N.D.	9.7						
		J. 1	mg/l	99		80-120		
Batch number: 05018022101A	Sample	numbor/s) -	4446304 44					
	Jampie .	rrumper(2):	4446784-444	10/86,444	6788			

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.





Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928231

Reported: 01/28/05 at 10:23 AM

Laboratory Compliance Quality Control

Analysis Name Ammonia Nitrogen	Blank Result N.D.	Blank MDL 0.11	Report Units mg/l	LCS %REC 98	LCSD %REC	LCS/LCSD Limits 91-100	RPD	RPD Max
Batch number: 05018401301B Sulfate	Sample no	umber(s): 0.30	4446788 mg/l	98		89-110		
Batch number: 050200016A Methane Ethane Ethene Propane	Sample no N.D. N.D. N.D.	2.0 1.0 1.0 1.0	4446788 ug/l ug/l ug/l ug/l	98 100 100 103		80-120 80-120 80-120 80-120		
Batch number: 05024106102B Nitrate Nitrogen	Sample nu	umber(s): 0.040	4446784-44 mg/l	46786,4446 103	788	89-110		

Sample Matrix Quality Control

nalysis Name	MS *REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD
Batch number: 05014020001A pH	Sample	numbe	r(s): 44467	84,4446	788	7.0		•	
						7.0	7.0	0	1
Batch number: 05014A36A	Sample	numbe	r(s): 44467	83-4446	788				
Total Xylenes	106	107	78-130	2	30				
Benzene	100	101	78-131	1	30				•
Toluene	110	113	78-129	2	30				-
Ethylbenzene	111	113	75-133	2	30	1			
Batch number: 05014WAF625	Sample	nimbei	c(s): 444678		106 111	6700			
bis(2-Ethylhexyl)phthalate	99	95	69-111	4	30	10/88			
Batch number: 05015105103A	Sample	number	(s): 444678	24_44467	106 444	67.00			
Nitrite Nitrogen	108		90-110	94-4440/	00,444				
			30-110			N.D.	N.D.	0 (1)	20
Batch number: 050170031A	Sample	number	(s): 444678	34					
Methane	103	102	74-123	2	20				
Ethane	107	105	75-121	2	20			1	
Ethene	106	104	78-124	2	20				
Propane	114	111	62-125	3	20				
Batch number: 05017020201A	Sample	number	(s): 444678	4.44467	8 Ř				
Alkalinity to pH 8.3			(-, - 1110/0	2/3340/	00	N.D.		±	
Alkalinity to pH 4.5	102	99	64-130	1	2	N.D. 395.	N.D. 395.	0 (1) 0	4 4
Batch number: 05017109102A	Sample	number	(s): 444678	4,44467	88			-	4

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

The background result was more than four times the spike added.





Page 3 of 4

Quality Control Summary

Client Name: RMT, Inc.

Reported: 01/28/05 at 10:23 AM

Group Number: 928231

Sample Matrix Quality Control

Analysis Name Total Phosphorus as P (water)	MS %REC 95	MSD %REC	MS/MSD Limits 90-110	RPD	RPD MAX	BKG Conc N.D.	DUP Conc N.D.	DUP RPD 0 (1)	Dup RPD Max
Batch number: 05017401301A Sulfate	Sample 100	number(s): 4446784 90-110			27.9	27.0	3	3
Batch number: 05018020601A Total Suspended Solids	Sample	number(s): 4446784	, 44467.8	88	1,970.	1,920.	3	24
Batch number: 05018021201A Total Dissolved Solids	Sample 87	number(s): 4446784, 60-140	,444678 1	3 8 5	5,620.	5,470.	3	5
Batch number: 05018022101A Ammonia Nitrogen	Sample	number(s): 4446784- 64-128	-444678 0	6,4446 8		30.5	1	2
Batch number: 05018401301B Sulfate	Sample 101		s): 4446788 90-110			N.D.	N.D.	2 (1)	. 3
Batch number: 050200016A fethane Ethane Ethene Propane	Sample 91 98 74* -197*	86 90 67*	78-124	5 9 7 6	20 20 20 20			- (- /	J
Batch number: 05024106102B Nitrate Nitrogen	Sample 97	number(s 96	;): 4446784- 90-110	444678 0		788 2.1	2.1	0	2
	•								

Surrogate Quality Control

Analysis Name: BTEX (EPA 602) Batch number: 05014A36A

Trifluorotoluene-P

Limits:	72-128	 		<u></u>		
MSD	103					
MS	102					
LCS	102				•	
Blank	102					
4446788	101					
4446787	101					
4446786	103					
4446785	102					
4446784	100					
4446783	100					

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

The background result was more than four times the spike added.





Page 4 of 4

Quality Control Summary

Client Name: RMT, Inc.

Reported: 01/28/05 at 10:23 AM

Group Number: 928231

Surrogate Quality Control

Analysis Name: Base Neutrals Batch number: 05014WAF625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4446783	81	83	76
4446784	79	85	76
4446785	93	90	95
4446786	89	88	89
4446788	81	82	89 88
Blank	8 <u>î</u>	82	92
LCS	92	86	94
MS	93	90	8.9
MSD	89	88	89
Limits:	48-117	62-111	45-132

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 050170031A Propene

4446784	67
lank	105
ICS	99
MS	86
MSD	84
_	

Limits: 64-126

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 050200016A

Propene

4446788	94
Blank	102
LCS	100
MS	86
MSD	86

Limits: 64-126

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

2) The background result was more than four times the spike added.



Analysis Request, Invironmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 9722 Group# 978731 Sample # 4446783-88

0079139

1	Please print. Insti	ructions c	on reverse	side cor	respon	d with circle	d numbe	ers.							•
Client: RMT, Inc	Acct. #:		17 14 17 14 16 16 16 16 16 16 16 16 16 16 16 16 16	4		(5)		1490all/1717 1470all/1717					For Lab	Use C	miv
Project Name#: 6527.10	PW\$ID #:						7	71	\neg	7	7	9/	FSC: SCR #: _		
Project Manager: N. Clevett	P.O.#:						//	/ /		/	14	*			(6)
Sampler: E-Vincke	Quote #:					//	/ /	//	/ /	/ /,	m				
Name of state where samples were collected:						/./.	$\sqrt{}$	/ /,			7 %	/ <i>\$</i> /	. •		
		3				3/8	3	, /,Ŵ			%	Y			
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MW-19-9D	1-13-05 920	X	K			/ /	f - f	 	(원		-7				3.4
M-19 -1	1-13-05 1445				4 X			X	1		4	SPC			
MW-19-1 MS/MSD	1-13-05 14 45		1] 	XX			X		<u> </u>	hold	time		
Trip Blank	15-05 14				1	<u> </u>		X		\vdash	X	1	70	1	1/10
Atm Blank	1-13-05 15 50		T x	1 1	D 4	KK	K	XX	1,0	X	7	ting	110	36	<u>4.C</u>
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Turnaround Time Requested (TAT) (please c (Rush TAT is subject to Lancaster Laboratories appre	ircle): Normal Rush		inquished		./		Date		Rec	eived	by:	^	D	atę	Time (
Date results are needed:			eri Z		<u>u</u>		VISI	5 4/3	<u> </u>	1	<u> </u>	rley	1/0	1/05	1675
Rush results requested by (please circle): Ph	none Fax E-mail	Reli	inquished L)_	•	Date			eived	by:	9	D	ate	Time
Phone #: (all-975-5415 Fax#: (all E-mail address: Nicholas, Genetic)	10-975-1078	Pali	inquished		-		+		├──	-2		·	- <u>-</u>	-	
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Type IV (CLP)							1	\		سحر	اسك	ic t	Jan 1/1	3/0	-190



ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 928096. Samples arrived at the laboratory on Thursday, January 13, 2005. The PO# for this group is 6527.10.

Client Description
MW-19-2 Grab Water Sample
Trip Blank Water Sample

Lancaster Labs Number 4446101 4446102

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

RMT, Inc.

1 COPY TO

Data Package Group

Attn: Mr. Nicholas J. Clevett

Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted

Diane L. Lockard

Senior Microbiologist, Coordinator



Lancaster Laboratories Sample No. 4446101

MW-19-2 Grab Water Sample L.E. Carpenter, NJ

Collected:01/12/2005 17:25

by EV

Account Number: 09322

Submitted: 01/13/2005 09:20 Reported: 01/27/2005 at 10:34

RMT, Inc. PO Box 8923

Discard: 02/27/2005

Madison WI 53708-8923

SDG#: LEC24-06

MW192

CAT	v ,			As Received		
No.	Analysis Name		As Received	Method		Dilution
210.	Midly 313 Name	CAS Number	Result	Detection	Units	Factor
00307	Heterotrophic Plate Count	n.a.	110.	Limit		
			110.	1.	cfu/ml	n.a.
	The sample was plated by Earl	Custer on 1-13	-05 at 1030			
00200	PH	n.a.	7.1	0.010		_
			·		Std. Units	1
	The 40 CFR Part 136 requires the	hat this analys	sis be performed	immediately	Units	
	(Within 15 minutes) upon sample	e collection	Because this was	s not possible,		
00201	the result may not be used for	reporting purp	poses.			
) ""	ATACTINETY CO PH 6.5	n.a.	N.D.	0.41	mg/l as	1
00202	Alkalinity to pH 4.5	n.a.	395.	. 0 41	CaCO3	
	_	,	393.	0.41	mg/l as	1
00206	Total Suspended Solids	n.a.	5.2 ј	3.0	CaCO3 mg/l	1
00212	Total Dissolved Solids	n.a.	568.	9.7	mg/l	
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015		1
00220	Nitrate Nitrogen	14797-55-8	0.093 J	0.040	mg/1	1
	Matrix QC was performed on this	s sample for th	e nitrate-nitro	o.o4o	mg/l	1
	Please see the attached QC Summ	arv report for	the narameter of	bowing a manual		
•	bias.		barameter s	mowing a matrix		
00221	Ammonia Nitrogen	7664-41-7	0.13 ј	0.11	(2)	
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/1	1
00228	Sulfate	14808-79-8	69.4	1.5	mg/l	1
00238	Free Carbon Dioxide	n.a.	62.8		mg/l	5
	,		02.0	0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	26.	2.0		_
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.		ug/l	1
		7. 50 0	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	/3	
07029	Benzene	71-43-2	N.D.	0.2	ug/1	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		ug/l	1
		·• ·		0.2	ug/l	1
00554	Base Neutrals (cont)	•				





Lancaster Laboratories Sample No. WW 4446101

MW-19-2 Grab Water Sample L.E. Carpenter, NJ

Collected:01/12/2005 17:25

by EV

Account Number: 09322

Submitted: 01/13/2005 09:20 Reported: 01/27/2005 at 10:34

RMT, Inc. PO Box 8923

Madison WI 53708-8923

01/17/2005 09:45

Discard: 02/27/2005

MW192

SDG#: LEC24-06

CAT No.	Analysis Name	CAS Number	As Received S Number Result				Dilution Factor
00669	bis(2-Ethylhexyl)phthalate	117-81-7	3.	J	1.	ug/l	1 .

State of New Jersey Lab Certification No. PA011

		Laboratory C	hro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method T:	rial#		Analyst	Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	01/15/2005 15:05	Earl R Custer	n.a.
00200	PH	EPA 150.1	1	01/13/2005 21:20	Luz M Groff	•
00201	Alkalinity to pH 8.3	EPA 310:1	1	01/17/2005 18:32		1
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1
00206	Total Suspended Solids	EPA 160.2	1	01/17/2005 17:06	Elaine F Stoltzfus	1
00212	Total Dissolved Solids	EPA 160.1	ī	01/18/2005 07:40	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1		Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	01/13/2005 16:32	Kyle W Eckenroad	1
00221	Ammonia Nitrogen	EPA 350.2	1	01/18/2005 15:17	Katherine D Webster	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	01/18/2005 14:30 01/18/2005 11:58	Luz M Groff Nicole M Kepley	1 1
00228	Sulfate	EPA 300.0	1	01/17/2005 17:34	Chamman T Whilliam	_
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/17/2005 17:34	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	01/18/2005 20:17	Elaine F Stoltzfus Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1,	01/14/2005 23:11	K. Robert Caulfeild-	1 .
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 08:43	James Brian K Graham	•
08108	625 Water Extraction	EPA 625	1	01/15/2005 10:45		1
08263	Total Phos as P Prep	EPA 365.1	1	01/17/2005 10:45	Andrew G Newton Choon Y Tian	1

(water)

Choon Y Tian



Lancaster Laboratories Sample No. WW 4446102

Trip Blank Water Sample L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 01/13/2005 09:20 Reported: 01/27/2005 at 10:34

RMT, Inc. PO Box 8923

Discard: 02/27/2005

Madison WI 53708-8923

TBCAR SDG#: LEC24-07TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538 07029 07030 07031	Total Xylenes Benzene Toluene Ethylbenzene	1330-20-7 71-43-2 108-88-3 100-41-4	N.D. N.D. N.D.	0.6 0.2 0.2 0.2	ug/l ug/l ug/l ug/l	1 1 1

State of New Jersey Lab Certification No. PA011

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	Laporato	ry Chro	nicle		
Analysis Name BTEX (EPA 602)	Method EPA 602	Trial#	Analysis Date and Time 01/14/2005 20:50	Analyst K. Robert Caulfeild-	Dilution Factor 1
		Analysis Name Method	Analysis Name Method Trial#	Analysis Name Method Trial# Date and Time	Analysis Name Method Trial# Date and Time Analyst



Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928096

Reported: 01/27/05 at 10:34 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

					_			
Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05013020001B	Sample	number(s):	4446101					
рн	-		11,10201	100		99-101		
Batch number: 05013105101B	Commlo		4446101					-
Nitrité Nitrogen	N.D.	number(s): 0.015		••				
	N.D.	0015	mg/l	98		89-110		
Batch number: 05014A36A	Sample	number(s):	4446101-44	46102				
Total Xylenes	N.D.	0.6	ug/l	99		82-120		
enzene	N.D.	0.2	ug/l	93		79-123		
foluene	N.D.	0.2	ug/1	105		82-119		
Ethylbenzene	N.D.	0.2	ug/l	104		81-119		
			5/	20.		01-119		
Batch number: 05014WAF625	Sample	number(s):	4446101					
bis(2-Ethylhexyl)phthalate	N.D.	1.	uq/l	96		68-111		
			~3/ **	50		00-İII		
Batch number: 050170031A	Sample	number(s):	4446101					
Methane	N.D.	2.0	ug/l	95		80-120		
Ethane	N.D.	1.0	ug/l	97		80-120 80-120		
Ethene	N.D.	1.0	ug/l	100				
Propané	N.D.	1.0	ug/l	103		80-120		
•	~		ug/1	702		80-120		
Batch number: 05017020201A	Sample	number(s):	4446101					
Alkalinity to pH 4.5				100		00 100		
				100		98-103		
Batch number: 05017020601A	Sample	number(s):	4446101				•	
Total Suspended Solids	N.D.	3.0	mg/1	108		£		
•		3.0	mg/1	100		55-132		
Batch number: 05017109101B	. Sample :	number(s):	AAA61.01					
Total Phosphorus as P (water)	N.D.	0.080	mg/l	95		00 110		
		0.000	mg/ i	95		89-110		
Batch number: 05017401301A	Sample	number(s):	4446101					
Sulfate	N.D.	0.30	mg/l	100				*
		0.30	mg/1	100		89-110		
Batch number: 05018021201A	Sample	number(s):	4446101:					
Total Dissolved Solids	N.D.	9.7	mg/l	99		00 100		
· · · · · · · · · · · · · · · · · · ·		J.,	mg/I	פפ		80-120		
Batch number: 05018022101A	Sample	number(s):	4446101					

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

The background result was more than four times the spike added.





Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928096

Reported: 01/27/05 at 10:34 AM

Laboratory Compliance Quality Control

Analysis Name Ammonia Nitrogen	Blank Result N.D.	Blank MOL 0.11	Report Units mg/l	LCS %REC 98	LCSD %REC	LCS/LCSD Limits 91-100	RPD	RPD Max
Batch number: 05018106103B Nitrate Nitrogen	Sample n	umber(s):	4446101 mg/l	102		89-110		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD
Batch number: 05013020001B pH	Sample	númber(s): 4446101			10.2	10.2	0 .	1
Batch number: 05013105101B Nitrite Nitrogen	Sample 105	number(s): 4446101 90-110			N.D.	N.D.	0 (1)	20
Batch number: 05014A36A	Sample	number (s): 4446101	-444610	2				
Total Xylenes	106	107	78-130	2	30				
Benzene	100	101	78-131	1	30				
Toluene	110	113	78-129	2	30				
Ethylbenzene	111	113	75-133	2	30				
Batch number: 05014WAF625	Sample	number (s): 4446101						
bis(2-Ethylhexyl)phthalate	99	95	69-111	4	30				-
Batch number: 050170031A	Sample	number(s): 4446101						
Methane	103	102	74-123	2	20				
Ethane	107	105	75-121	2	2.0				•
Ethene	106	104	78-124	2	20				
Propane	114	111	62-125	3	20				
Batch number: 05017020201A	Sample	number (s): 4446101						
Alkalinity to pH 8.3			4			N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	102	99	64-130	ļ	2	395.	395.	0	4
Batch number: 05017020601A	Sample	number(s): 4446101	•					
Total Suspended Solids						215.	218.	2	24
Batch number: 05017109101B	Sample	number (s	s): 4446101						
Total Phosphorus as P (water)	100		90-110			N.D.	N.D.	0 (1)	3
Batch number: 05017401301A	Sample	number(s	s): 4446101.						
Sulfate	100	e.	90-110			27.9	27.0	3	3
Batch number: 05018021201A	Sample	number(s	3): 4446101				4		

*- Outside of specification

(I) The result for one or both determinations was less than five times the LOQ.

2) The background result was more than four times the spike added.





Page 3 of 4

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928096

Reported: 01/27/05 at 10:34 AM

Sample Matrix Quality Control

Analysis Name Total Dissolved Solids	MS %REC 87	MSD FREC 81	MS/MSD Limits 60-140	RPD	RPD MAX 5	EKG Conc 5,620.	Conc 5,470.	DUP RPD 3	Dup RPD Max 5
Batch number: 05018022101A Ammonia Nitrogen	Sample	number 100	(s): 444610 64-128	0	8	31.0	30 - 5	i	2
Batch number: 05018106103B Nitrate Nitrogen	Sample 116*	number	(s): 444610 90-110	1		0.093 J	0.099 J	6* (1)	2

Surrogate Quality Control

Analysis Name: BTEX (EPA 602) Batch number: 05014A36A Trifluorotoluene-P

4440101	TOT
446102	102
Blank	102
LCS	102
MS	102
MSD	103

Limits:

72-128

Analysis Name: Base Neutrals Batch number: 05014WAF625 Nitrobenzene-d5

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4446101	82	85	88
Blank	81	82	92
LCS	92	86	94
MS	93	90	89
MSD	8.9	88	89
Limits:	48-117	62-111	45-132

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 050170031A Propené

4446101	85
Blank	105
LCS	99
MS	86
MSD	84

- *- Outside of specification
- (1) The result for one or both determinations was less than five times the LOQ.
- 2) The background result was more than four times the spike added.





Page 4 of 4

Quality Control Summary

Client Name: RMT, Inc.

Reported: 01/27/05 at 10:34 AM

Group Number: 928096

Surrogate Quality Control

Limits:

64-126

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

2) The background result was more than four times the spike added.



Analysis Request, Invironmental Services Chain of Cu.ody

2102 Rev. 10/27/02



For Lancaster Laboratories use only Acct. # 09322_Group# 928096 Sample # 4446101-162 COC #

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Project Name##: 6507, 10	PWSID	#:				1				/ .					\mathcal{I}		9 / /	FSC; SCR:	#:	
Project Manager: N. Clevett	P.O.#:									,	/ /	/ /	/ ,	/ ,		13	*			6
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Rush results requested by (please circle): Ph		E-mail	Reli	nquis	hed b	y : _					Date	Ti	me .	Rece	ived	by:			Date	Time
Phone #: 616-975-5415 Fax #: 6	6-975-	1098																_		
E-mail address: nicholas, devetto	mtine	Com	Reti	nquis	hed b	y:					Date	Tir	ne	Rece	ived	by:			Date	Time
Data Package Options (please circle if required)	3.	G Complete?	1_		ş															
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Type IV (CLP)										-+		+	1	y	1/1	or 1	(XIII o	r 11	13/05	1 190
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Copies; White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.



ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 928348. Samples arrived at the laboratory on Friday, January 14, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19-5 Grab Water Sample	4447532
MW-19 Grab Water Sample	4447533
MW-19-6 Grab Water Sample	4447534
MW-19-11 Grab Water Sample	4447535
Rinse Blank-1 Grab Water Sample	4447536
Trip Blank Water Sample	4447537

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO RMT, Inc. 1 COPY TO Data Package Group

Attn: Mr. Nicholas J. Clevett





Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

Robert G. Heisey

Sr. Chemist/Coordinator



Lancaster Laboratories Sample No. WW 4447532

MW-19-5 Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 17:55

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50 Reported: 01/28/2005 at 10:22

Discard: 02/28/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

215cara: 02/28/2003

19SLC SDG#: LEC24-12

CAT				As Received		
No.	San Sing Annual or Assistance	•	As Received	Method		Dilution
	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	380.	1.	cfu/ml	n.a.
	This result is an estimated co	blished countir	one plate used to g range of 30 to	o calculate	•	
	colony forming units (cfu) per	dilution.				
	The sample was plated by Earl	Custer on 1-14-	05 by 1605.			
00200	рн	n.a.	6.6	0.010	Std.	1
	The 40 CFR Part 136 requires the	nat this analys	is be performed	immediately	Units	
,	(Within 15 minutes) upon sample	e collection.	Because this was	not possible,		
00201	the result may not be used for Alkalinity to pH 8.3	reporting purp	oses.			
00202		n.a.	N.D.	0.41	mg/l as CaCO3	1
	Alkalinity to pH 4.5	n.a.	126.	0.41	mg/l as CaCO3	.1.
00206	Total Suspended Solids	n.a.	3.6 ј	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	174.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.49	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/1	1
00228	Sulfate	14808-79-8	15.8	1.5	mg/l	5
00238	Free Carbon Dioxide	n.a.	63.3	0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	34.	2.0	ug/l	•
07107	Ethane	74-84÷0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	·	1
07109	Propane	74-98-6	N.D.	1.0	ug/l ug/l	1 1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	340.	6.0	ug/l	10
07029	Benzene	71-43-2	N.D.	2.0	úg/l	10
07030	Toluene	108-88-3	3,100.	2.0	ug/l	10
07031	Ethylbenzene	100-41-4	64.	2.0	ug/l	10
	Due to dilution of the sample ma	.do			49/1	±0





Lancaster Laboratories Sample No. WW 4447532

MW-19-5 Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 17:55

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50

Reported: 01/28/2005 at 10:22

50 RMT, Inc. 0:22 PO Box 8923

Discard: 02/28/2005 Madison WI 53708-8923

19SLC SDG#: LEC24-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00554	Base Neutrals (cont)			•		
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ua/1	1

State of New Jersey Lab Certification No. PA011

Labor	atory	Chror	101	_
Harot	aLUIV	1.111.131	(' 1 6	_

	CAT		-		Analysis		Dilution
	No.	Analysis Name	Method	Crial#	Date and Time	Analyst	Factor
•	00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed	1	01/17/2005 10:00	Earl R Custer	n.a.
			1995		,,		m.a.
	00200	pH	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	1
	00201	Alkalinity to pH 8.3	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1
	00202	Alkalinity to pH 4.5	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1
	00206	Total Suspended Solids	EPA 160.2	1	01/18/2005 16:59	Anne L Kuenzli	1
	0.0212	Total Dissolved Solids	EPA 160.1	1	01/18/2005 07:40	Anne L Kuenzli	1
	00219	Nitrite Nitrogen	EPA 353.2	ī	01/15/2005 07:40		1
	00220	Nitrate Nitrogen	EPA 353.2	1	01/13/2005 09:01 01/24/2005 13:12	Kyle W Eckenroad	1
	00221	Ammonia Nitrogen	EPA 350.2	7		Nicole M Kepley	1
	00227	Total Phosphorus as P	EPA 365.1	_	01/21/2005 13:45	Lúz M Groff	1
		(water)	EFA 305.1	7	01/18/2005 12:18	Nicole M Kepley	1
	00228	Sulfate	EPA 300.0	7	01/18/2005 14:25	Charmon I Dhillia	_
	00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/13/2005 14:25	Shannon L Phillips	5
	07105	Volatile Headspace	SW-846 8015B, modified	-		Elaine F Stoltzfus	1
		Hydrocarbon	sw 040 0013B, modified	1	01/20/2005 21:21	Robert I Pusch	1
	08238	BTEX (EPA 602)	EPA 602	1	01/19/2005 03:27	K. Robert Caulfeild-	7.0
				-	01/13/2005 03.2/	James	10
	00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 19:51	Brian K Graham	-
	08108	625 Water Extraction	EPA 625	1	01/16/2005 09:45		1
	08263	Total Phos as P Prep	EPA 365.1	1	· · · · · · · · · · · · · · · · · · ·	Andrew G Newton	1
		(water)	21 303.1	_	01/17/2005 10:55	Choon Y Tian	1
		• · · •					



Lancaster Laboratories Sample No. 4447533

MW-19 Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 16:50 by EV

Account Number: 09322

Submitted: 01/14/2005 14:50 Reported: 01/27/2005 at 11:43

RMT, Inc. PO Box 8923

Discard: 02/27/2005

Madison WI 53708-8923

19LEC SDG#: LEC24-13

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count		350.	1.	cfu/ml	n.a.
	This result is an estimated cou	nt. At least	one plate used to	calculate		
•	the result is outside the estab colony forming units (cfu) per	lished countin dilution.	g range of 30 to	300		
	The sample was plated by Earl C	uster on 1-14-	05 by 1605.			
00200	рн	n.a.	6.6	0.010	Std. Units	1
00201.	The 40 CFR Part 136 requires the (within 15 minutes) upon sample the result may not be used for Alkalinity to pH 8.3	collection.	Because this was	mmediately not possible, 0.41	mg/l as	. 1
	· · · · · · · · · · · · · · · · · · ·	4		0.11	CaCO3	<u>.</u>
00202	Alkalinity to pH 4.5	n.a.	241.	0.41	mg/l as CaCO3	1.
00206	Total Suspended Solids	n.a.	17.2	3.0	mg/l	1.1
00212	Total Dissolved Solids	n.a.	347.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.22	0.040	mg/l	.1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1 .
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1 .
00228	Sulfate	14808-79-8	7.4	1.5	mg/l	5
00238	Free Carbon Dioxide	n.a.	121.	0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	230.	10.	ug/l	5
07107	Ethane	74-84-0	2.6 J	1.0	ug/l	1
07108	Ethene	74-85-1	4.1 J	1.0	ug/1	1
07109	Propáne	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)			•		
05538	Total Xylenes	1330-20-7	3,600.	30.	ùg/l	50
07029	Benzene	71-43-2	N.D.	10.	ug/l	50
07030	Toluene	108-88-3	18,000.	10.	ug/l	50
07031	Ethylbenzene	100-41-4	750.	10.	ug/l	50
1	Due to dilution of the sample ma	de necessary b	y the high level		2 . –	- -
,	of Toluene, normal reporting lim	its were not a	ittained.			



Lancaster Laboratories Sample No. WW

MW-19 Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 16:50

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50

Reported: 01/27/2005 at 11:43

RMT, Inc. PO Box 8923

Discard: 02/27/2005

Madison WI 53708-8923

19LEC SDG#: LEC24-13

CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Lab	oratory	Chro	nicle
	<u> </u>		IITCTE

CAT		•		Analysis		Dilution
No.	Analysis Name	Method	rial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	01/17/2005 10:00	Earl R Custer	n.a.
00200	рĦ	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	- 1
00206	Total Suspended Solids	EPA 160.2	1	01/18/2005 16:59	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2005 07:40	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	01/15/2005 09:02	Kyle W Eckenroad	1
00220	Nitrate Nitrogen	EPA 353.2	1	01/24/2005 13:13	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	01/21/2005 13:45	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	01/18/2005 12:22	Nicole M Kepley	ī
00228	Sulfate	EPA 300.0	1	01/18/2005 14:39	Shannon L Phillips	5
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/17/2005 18:32	Elaine F Stoltzfus	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	01/20/2005 20:46	Robert I Pusch	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	01/20/2005 21:33	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	01/19/2005 04:02	K. Robert Caulfeild- James	50
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 20:46	Brian K Graham	7
08108	625 Water Extraction	EPA 625	1	01/16/2005 09:45	Andrew G Newton	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	01/17/2005 10:55	Choon Y Tian	ī



Lancaster Laboratories Sample No. WW 4447534

MW-19-6 Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 19:25

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50 Reported: 01/27/2005 at 11:43

RMT, Inc. PO Box 8923

Discard: 02/27/2005

Madison WI 53708-8923

196LC SDG#: LEC24-14

CAT			As Received	As Received Method	•	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	82.	1.	cfu/ml	n.a.
	The sample was plated by Earl	Custer on 1-14-	-05 by 1605			
00200	рн	n.a.	7.0	0.010	Std.	1
	-				Units	. 1
	The 40 CFR Part 136 requires the	hat this analys	is be performe	ed immediately	Olling	
	(within 15 minutes) upon sample	e collection.	Because this t	was not possible,		
00201	the result may not be used for				-	
	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00,202	Alkalinity to pH 4.5	n.a.	204.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	11.2 ј	3.0	mg/1	1 .
00212	Total Dissolved Solids	n.a.	544.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.7	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	44.0	1.5	mg/l	5
00238	Free Carbon Dioxide	n.a.	40.8	0.41	mg/l	. 1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	130.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	-	
07108	Ethene	74-85-1	Ń.D.	1.0	ug/1	1
07109	Propane	74-98-6	6.9	1.0	ug/1	1
	•		0.5	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	14.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l ug/l	1
07030	Toluene	108-88-3	36.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	4.0	0.2	ug/l	.1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	1. J	1.	ug/l	1
					g / - -	_



Lancaster Laboratories Sample No. 4447534

MW-19-6 Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 19:25

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50 Reported: 01/27/2005 at 11:43

Discard: 02/27/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

196LC

SDG#: LEC24-14

As Received

Method

Dilution

No.

CAT

Analysis Name

CAS Number

As Received Result

Detection Limit

Units Factor

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT		_	·	Analysis		Dilution
No.	Analysis Name	Method	Trial#	-	Analyst	Factor
0307	Heterotrophic Plate Count	Std Meth 9215B 19th e	d 1	01/17/2005 10:00	Earl R Custer	n.a.
00200	pН	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	ī
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1
00206	Total Suspended Solids	EPA 160.2	1	01/18/2005 16:59	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2005 07:40	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	01/15/2005 09:03	Kyle W Eckenroad	1
00220	Nitrate Nitrogen	EPA 353.2	1	01/24/2005 12:55	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	01/21/2005 13:45	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	01/18/2005 12:23	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	01/18/2005 14:52	Shannon L Phillips	5
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/17/2005 18:32	Elaine F Stoltzfus	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modifie	d 1	01/20/2005 17:09	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	01/19/2005 06:23	K. Robert Caulfeild- James	1 .
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 21:42	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	01/16/2005 09:45	Andrew G Newton	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	01/17/2005 10:55	Choon Y Tian	1



Lancaster Laboratories Sample No. WW 4447535

MW-19-11 Grab Water Sample L.E. Carpenter, NJ

Collected:01/13/2005 21:55

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50 Reported: 01/27/2005 at 11:43

SDG#: LEC24-15

RMT, Inc. PO Box 8923

Discard: 02/27/2005

1911L

Madison WI 53708-8923

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307		n.a.	940.	1.	cfu/ml	n.a.
	This result is an estimated co	unt. At least	one plate used t	o calculate		
	the result is outside the estab		ng range of 30 to	300		•
	colony forming units (cfu) per	dilution.				
	The sample was plated by Earl	Custer on 1-14-	-05 by 1605.			
00200	Н	n.a.	6.8	0.010	Std. Units	1
	The 40 CFR Part 136 requires the	hat this analys	sis be performed	immediately	OHIES	
•	(within 15 minutes) upon sample	e collection.	Because this was	not possible,		
00001	the result may not be used for			•		
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	205.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	4.8 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	4,750.	194.	mg/l	1
00219	·	14797-65-0	N.D.	0.015	mg/l	1
00220		14797-55-8	2.2	0.040	mg/l	1
00221	··· - · - · - · - · · · · · · · · · · ·	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	65. 6	1.5	mg/l	5
00238	Free Carbon Dioxide	n.a.	65.0	0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	9.9	2.0	ug/l	1
071.07	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)				•	
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
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Base Neutrals (cont)



Lancaster Laboratories Sample No. 4447535

MW-19-11 Grab Water Sample L.E. Carpenter, NJ

Collected: 01/13/2005 21:55

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50

RMT, Inc. PO Box 8923

Reported: 01/27/2005 at 11:43

Madison WI 53708-8923

Discard: 02/27/2005

1911L

SDG#: LEC24-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00669	bis(2-Ethylhexyl)phthalate	117-81-7	Ň.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Labo	ratory	Chro	nicle
	,	~~~~	/++

CAT		napotacory (Analysis		Dilution
No.	Analysis Name	Method T	rial#	· -	Analyst:	Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	01/17/2005 10:00	Earl R Custer	n.a.
00200	рĤ	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	- 1
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1
00206	Total Suspended Solids	EPA 160.2	1	01/18/2005 16:59	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2005 07:40	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	01/15/2005 09:07	Kyle W Eckenroad	1
00220	Nitrate Nitrogen	EPA 353.2	1	01/24/2005 12:56	Nicole M Kepley	ī
00221	Ammonia Nitrogen	EPA 350.2	1	01/21/2005 13:45	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	01/18/2005 12:24	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	01/18/2005 15:06	Shannon L Phillips	5
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/17/2005 18:32	Elaine F Stoltzfus	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1 .	01/20/2005 17:21	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	01/19/2005 06:57	K. Robert Caulfeild- James	1
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 22:38	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	01/16/2005 09:45	Andrew G Newton	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	01/17/2005 10:55	Choon Y Tian	ī



Lancaster Laboratories Sample No. 4447536

Rinse Blank-1 Grab Water Sample L.E. Carpenter, NJ

Collected:01/14/2005 08:50

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50 Reported: 01/27/2005 at 11:43

RMT, Inc. PO Box 8923

Discard: 02/27/2005

Madison WI 53708-8923

3 - Doood----

RVLLC SDG#: LEC24-16RB

				As Received		
CAT	•		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	36.	1.	cfu/ml	n.a.
	The sample was plated by Earl (Custer on 1-14-	-05 by 1605.			
00200	рН	n.a.	5.8	0.010	Std. Units	1
	The 40 CFR Part 136 requires the	at this analys	sis be performed	immediately		
	(within 15 minutes) upon sample	collection.	Because this was	not possible,		
00201	the result may not be used for Alkalinity to pH 8.3					_
		n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	N.D.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	N.D.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	0.30	mg/l	1
00238	Free Carbon Dioxide	n.a.	N.D.	0.41	mg/l	1
07105	Volatile Headspace Hydrocarbon			÷		
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	. 1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	Ň.Ď.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330+20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1





Lancaster Laboratories Sample No. WW 4447536

Rinse Blank-1 Grab Water Sample L.E. Carpenter, NJ

Collected:01/14/2005 08:50

by EV

Account Number: 09322

Submitted: 01/14/2005 14:50

Reported: 01/27/2005 at 11:43

Discard: 02/27/2005

RMT, Inc. PO Box 8923

Madison WI 53708-8923

RVLLC

SDG#: LEC24-16RB

As Received

CAT

No. Analysis Name

CAS Number Resul

As Received Result Method Detection Limit Dilution

Units Factor

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	· ·		Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
00307	Heterotrophic Plate Count	Std Meth 9215B 19th e	d 1	01/17/2005 10:00	Earl R Custer	n.a.		
00200	рн	EPA 150.1	1	01/14/2005 20:00	Luz M Groff	1		
00201	Alkalinity to pH 8.3	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1		
00202	Alkalinity to pH 4.5	EPA 310.1	1	01/17/2005 18:32	Elaine F Stoltzfus	1		
00206	Total Suspended Solids	EPA 160.2	1	01/18/2005 16:59	Anne L Kuenzli	1		
00212	Total Dissolved Solids	EPA 160.1	1	01/18/2005 07:40	Anne L Kuenzli	1		
00219	Nitrite Nitrogen	EPA 353.2	1 .	01/15/2005 09:08	Kyle W Eckenroad	1		
00220	Nitrate Nitrogen	EPA 353.2	1	01/24/2005 12:47	Nicole M Kepley	1		
00221	Ammonia Nitrogen	EPA 350.2	1	01/21/2005 13:45	Luz M Groff	1		
00227	Total Phosphorus as P (water)	EPA 365.1	. 1	01/18/2005 12:25	Nicole M Kepley	1		
00228	Sulfate	EPA 300.0	1	01/18/2005 16:13	Shannon L Phillips	1		
00238	Free Carbon Dioxide	SM-18 4500CO2	1	01/17/2005 18:32	Elaine F Stoltzfus	1		
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modifie	d 1	01/20/2005 17:33	Robert I Pusch	1		
08238	BTEX (EPA 602)	EPA 602	1	01/18/2005 23:22	K. Robert Caulfeild- James	1		
00554	Base Neutrals (cont)	EPA 625	1	01/19/2005 23:34	Brian K Graham	1		
08108	625 Water Extraction	EPA 625	1	01/16/2005 09:45	Andrew G Newton	1		
08263	Total Phos as P Prep (water)	EPA 365.1	1	01/17/2005 10:55	Choon Y Tian	ī		



Lancaster Laboratories Sample No. WW 4447537

Trip Blank Water Sample L.E. Carpenter, NJ

Collected: n.a.

TBLEC

Submitted: 01/14/2005 14:50

Reported: 01/27/2005 at 11:44

Discard: 02/27/2005

SDG#: LEC24-17TB*

Account Number: 09322

RMT, Inc. PO Box 8923

FO BOX 8923

Madison WI 53708-8923

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538 07029 07030 07031	Total Xylenes Benzene Toluene Ethylbenzene	1330-20-7 71-43-2 108-88-3 100-41-4	N.D. N.D. N.D.	0.6 0.2 0.2 0.2	ug/l ug/l ug/l ug/l	1 1 1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

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CAT	- · • · ·			Analysis		Dilution		
No. 08238	Analysis Name BTEX (EPA 602)	Method EPA 602	Trial#	Date and Time 01/18/2005 23:57	Analyst K. Robert Caulfeild-	Factor		
			_		James	1		



Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928348

Reported: 01/27/05 at 11:44 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 05014020001A pH	Sample	number(s):	4447532	100		99-101		
Batch number: 05014020001B pH	Sample	number(s):	4447533-44	47536 100		99-101		
Batch number: 05015105102A Nitrite Nitrogen	Sample N.D.	number(s): 0.015	4447532-44 mg/l	47533 98		89-110		
Batch number: 05015105102B Nitrite Nitrogen	Sample N.D.	number(s): 0.015	4447534-44 mg/l	47536 98		89-110		
Batch number: 05015WAD625 bis(2-Ethylhexyl)phthalate	Sample N.D.	number(s):	4447532-44 ug/l	47536 102	100	68-111	2	30
Batch number: 05017020201A Alkalinity to pH 4.5	Sample	number(s):	4447532-44	47536 100		98-103		
Batch number: 05017109102A Total Phosphorus as P (water)	Sample N.D.	number(s): 0.080	4447532-44 mg/l	47536 94		89-110		
Batch number: 05018020601A Total Suspended Solids	Sample N.D.	number(s):	4447532-44 mg/l	47536 77		55-132		
Batch number: 05018021201A Total Dissolved Solids	Sample N.D.	number(s): 9.7	4447532-44 mg/l	47536 99		80-120		
Batch number: 05018401101A Sulfate	Sample N.D.	number(s): 0.30	4447532-44 mg/l	47536 97		89-110	•	
Batch number: 05018A36A Total Xylenes Benzene Toluene Ethylbenzene	Sample N.D. N.D. N.D.	number(s): 0.6 0.2 0.2 0.2	4447532-44 ug/l ug/l ug/l ug/l	47537 96 91 101	95 90 100 100	82-120 79-123 82-119 81-119	1 1 1	30 30 30 30
Batch number: 050200016A	Sample	number(s):	4447532-44	47536		. /		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

2) The background result was more than four times the spike added.





Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928348

Reported: 01/27/05 at 11:44 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methane	N.D.	2.0	ug/l	%REC 98		80-120		
Ethane	N.D.	1.0	ug/l	100		80-120		
Ethene	N.D.	1.0	ug/l	100	•	80-120		
Propane	N.D.	1.0	ug/l	103		80-120	٠	
Batch number: 05021022101A	Sample nu	mber(s):	4447532-44	47536				
Ammonia Nitrogen	N.D.	0.11	mg/l	98		91-100	•	
Batch number: 05024106103A	Sample nu	mber(s):	4447532-44	47535				
Nitrate Nitrogen	0.042 J	0.040	mg/l	95	;	89-110		
Batch number: 05024106103B	Sample nu	mber(s):	4447536					•
Nitrate Nitrogen	0.042 J	0.040	mg/l	95		89-110		

Sample Matrix Quality Control

Analysis Name	MS TREC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05014020001A pH	Sample	number	(s): 4447	532		7.0	7.0	0	1
Batch number: 05014020001B pH	Sample	number	(s): 4447	533-44475	536	6.6	6.6	0	1
Batch number: 05015105102A Nitrite Nitrogen	Sample 113*	number	(s): 4447 90-110	532-44475	533	N.D.	N.D.	0 (1)	20
Batch number: 05015105102B Nitrite Nitrogen	Sample 110	number	(s): 4447! 90-110	534-44475	536	N.D.	N.D.	15 (1)	20
Batch number: 05017020201A Alkalinity to pH 8.3 Alkalinity to pH 4.5		number	(s): 44475 64-130	532-44475 1	2	N.D. 395.	N.D. 395.	0 (1) 0	4 4
Batch number: 05017109102A Total Phosphorus as P (water)	Sample 95	number((s): 44475 90-110	532-44475	36	N.D.	N.D.	0 (1)	3
Batch number: 05018020601A Total Suspended Solids	Sample	number((s): 44475	532-44475	36	1,970.	1,920.	3	24
Batch number: 05018021201A Total Dissolved Solids	Sample 87	number((s): 44475 60-140	532-44475 1	536 5	5,620.	5,470.	3	5
Batch number: 05018401101A	Sample	number(s): 44475	532-44475	36				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





Page 3 of 4

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 928348

Reported: 01/27/05 at 11:44 AM

Sample Matrix Quality Control

Analysis Name Sulfate	MS REC 98	MSD TREC	MS/MSD Limits 90-110	RPD	RPD MAX	EKG Conc 65.6	Conc 64.8	DUP RPD 1	Dup RPD Max 3
Batch number: 05018A36A	Sample	number	(s): 44475	32-44475	537				
Total Xylenes	104		78-130						
Benzene	96		78-131				•		
Toluene	110		78-129				•		
Ethylbenzene	109		75-133						
Batch number: 050200016A	Sample	number	(s): 44475	32-44475	536				
Methane	91	86	74-123	5	20				
Ethane	98	90	75-121	9	20				
Ethene	74*	67*	78-124	7	20				
Propane	-197*	-203*	62-125	6	20				
Batch number: 05021022101A	Sample	number	(s): 444753	32-44475	i36				
Ammonia Nitrogen	91	88	64-128	1	8	99,100.	100,000.	1	2
Batch number: 05024106103A	Sample	number	(s): 444753	32-44475	35				
Vitrate Nitrogen	105		90-110			0.092 J	0.060 ј	43* (1)	2
Batch number: 05024106103B	Sample	number	(s): 444753	3-6					
Nitrate Nitrogen	106		90-110			0.31	0.31	2 (1)	2

Surrogate Quality Control

Analysis Name: Base Neutrals Batch number: 05015WAD625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	
4447532	80	90	85	
4447533	75	80	73	
4447534	78	88	84	
4447535	79	87	68	
4447536	78	88	90	
Blank	81	81	90	
LCS	91	87	95	
LCSD	92	88	93	
Limits:	48-117	62-111	45-132	

Analysis Name: BTEX (EPA 602) Batch number: 05018A36A

Trifluorotoluene-P

(1) The result for one or both determinations was less than five times the LOQ.

2) The background result was more than four times the spike added.



^{*-} Outside of specification



Page 4 of 4

Quality Control Summary

Client Name: RMT, Inc. Group Number: 928348 Reported: 01/27/05 at 11:44 AM Surrogate Quality Control 4447532 4447533 101 4447534 99 4447535 101 4447536 101 4447537 103 Blank 102 LCS 101 LCSD 100 MS 99 Limits: 72-128 Analysis Name: Volatile Headspace Hydrocarbon Batch number: 050200016A Propene 4447532 98 4447533 93 4447534 91 4447535 98 4447536 97 102 Blank LCS 100 MS 86 MSD 86 Limits: 64-126

- *- Outside of specification
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681

Analysis Request, Invironmental Services Chain of Cu.ody

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Acct. # 9322 Group# 928348 Sample # 4447532-37 COC # 0079140

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02